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Whitworth University

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CAMPANILE CALL

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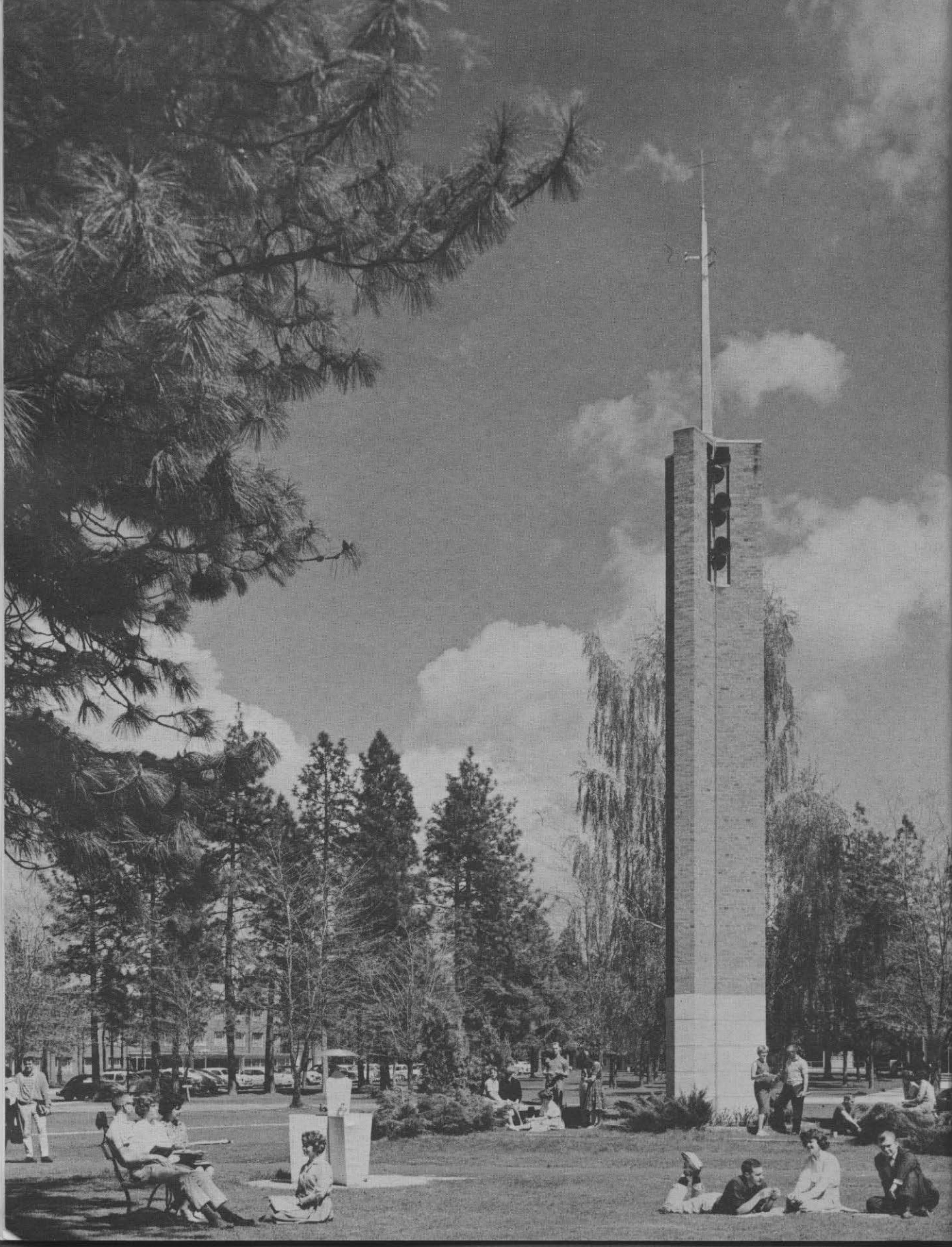

CONTENTS

THIS IS WHITWORTH

Whitworth College was founded in 1890 at Sumner, Washington. In 1900 the College was moved to Tacoma, Washington, where it continued until 1913. In that year the Spokane Presbytery of the Presbyterian Church invited the College to move to its present location, and the following year Whitworth was moved to Spokane, Washington. The College is named in honor of one of the outstanding pioneers of the Northwest, Dr. George Whitworth. Following the trail of Whitman, Spaulding, Meeker, and other pioneers, this Christian minister came to the far West to build churches and to become an outstanding leader in the early life of Washington.

Today, after seventy-six years of splendid achievement, Whitworth stands as a strong college dedicated to the great task of Christian higher education. It continues under the guidance of the Washington-Alaska Synod of the United Presbyterian Church and cooperates fully with the board of education of the denomination.

COMMUNICATIONS

All Communications to the college must be directed to a specific office as listed on page 79 and addressed to Whitworth College, Spokane, Washington 99218. Telephone HU 9-3550, area code 509.

Educational Concept

Whitworth College, one of America's leading colleges of the liberal arts and sciences, is sponsored by the United Presbyterian Synod of Washington-Alaska and cooperates fully with the Board of Christian Education of the United Presbyterian Church, U.S.A. Its total program is carefully planned to meet the intellectual, spiritual, and physical needs of the youth who come to its campus.

This program of liberal arts and sciences gives students an opportunity to major in twenty-three academic fields that equip them to live purposefully and effectively in a complex world. Added to formal classroom instruction is a wide range of extra-class activities to help students achieve worthwhile educational objectives. A definite attempt is made to integrate all college-provided experiences with a carefully considered Christian philosophy of life. Whitworth sends its students back and forth between theory and practice, thought and action, books and community life.

Campus buildings and facilities have been planned to best meet the needs of twentieth century education with a well-trained faculty and staff to instruct and guide students in acquiring and developing those attitudes and understandings most effective and worthwhile in life.

Whitworth College is conceived to be a community of men and women dedicated to the disciplined pursuit of understanding and skill in the various liberal arts and sciences and to wisdom in the application of all such accomplishments. This community believes in the value and validity of empirical and humanistic approaches to the various fields of knowledge when these approaches are employed with freedom, with honesty, with scrupulous care, and with proper respect for their potentialities and limits. It believes also that an essential part of all enduring wisdom comes from God-given disclosures and that, for fullness, collegiate education must be built upon such foundations.

Accepting the Christian faith as full Revelation, and believing in the teachings of Jesus concerning the worth of the individual person, this college community considers education a significant means to the ends of developing the student toward his own best self and of increasing his power to worship God and to be of service to men.

Because it holds knowledge and wisdom to be aspects of an indivisible whole, Whitworth believes that it must provide faculty members who are dedicated to a reverent search for truth, who accept by faith the Revelation of God in Jesus Christ, who by His help attempt to live and teach in His spirit, and who accept excellence in scholarship, instruction, and student guidance as their divine calling.

Whitworth further believes that its students should be men and women who have the mental ability and attitude to profit from rigorous academic work and whose minds are open to the claims of faith and to the objective of gaining wisdom.

PURPOSE

The College attempts to acquaint the student with the nature of his own culture and cultural heritage. The curricular offerings are sufficiently varied and balanced in the arts and sciences to provide opportunities for the student to become aware of his own environment and background. The general requirements for graduation assure that the student will gain a sound and appreciative view of several fields (general education) and depth of preparation in at least one (major specialization). Our special aim as a Christian liberal arts college is to provide each student with an understanding of his relationship to himself, to his fellows, and to God. In the Christian context of college life and instruction the student can develop respect for the resources of his mind and body, develop his moral integrity and personal life, and grow in his understanding of the intrinsic worth of other persons. It is our hope that each graduate will accept responsibility to work actively in his society for a higher manifestation of Christ's love.

The college provides opportunities that point toward vocational competence. In some areas the college provides a terminal program that gives preparation for employment immediately following graduation. In other fields it provides vocational preparation that would be dependent upon further instruction following the college graduation.

Whitworth College provides the foundation and competence for post-graduate study. Each year a large number of its graduates enter the finest graduate schools in preparation for higher degrees or professional achievement. This calls for a rigorous academic climate.

These objectives are maintained for all students. Therefore, the college concentrates its efforts in those areas in which the three are compatible.

DOCTRINAL POSITION

Whitworth College accedes to the historic faith of Protestantism and stands unequivocally for its fundamental principles. We believe the Scriptures of the Old and New Testaments to be the inspired Word of God and the only infallible rule of faith and practice. We believe in the sovereignty of God, in the deity of Jesus Christ our only Savior and Lord, in His work of redemption on the cross, and in the Holy Spirit who dwells in every believer as the Spirit of Truth, of Holiness, and of Comfort.

ACCREDITATION AND AFFILIATIONS

Whitworth College is fully accredited by the Northwest Asso- liberal arts college with an unqualified membership in that ciation of Secondary and Higher Schools as a four-year Association. It is also a member of the Association of American Colleges and is on the approved list of the American

Association of University Women and the National Council on Church-Related Colleges.

The College is also accredited by the State Board of Education for giving complete training for public school certification in the State of Washington.

This school is authorized under Federal Law to enroll non-immigrant alien students.

RESOURCES

The annual report shows that the College has buildings, equipment and grounds valued at $6,500,000. The operating budget for the academic year is more than $2,740,000. Tuition and fees account for approximately 70 per cent of this amount. The rest comes through support of the United Presbyterian Church, gifts from individuals, business firms, foundations, alumni, and endowment.

LOCATION

Whitworth College is located just north of the city limits of Spokane in the Country Homes area. At an elevation of 2000 feet, the campus of 200 acres occupies a site of natural beauty. Forty acres of the area constitute the central campus on which are located its many buildings and athletic facilities.

TRANSPORTATION

A regular Spokane City Lines bus schedule is maintained between downtown Spokane and Whitworth College. This provides a safe and insured method of transportation for students living either on the campus or in the city. Students who find transportation in private cars are taking avoidable risks, for which the College assumes no responsibility. The College strongly recommends that students living on the campus do not bring automobiles. Freshmen may not bring motor vehicles to the campus without prior permission of the Dean of Students.

CAREER PLACEMENT

Whitworth College maintains a complete placement service to aid graduates who are seeking employment. The Office of Educational Services and Placement is maintained in the Education Office for those desiring educational employment. Placement service for all positions other than in education is available in the Placement Office. It is important that those student who may be seeking employment establish their credentials early in the senior year. The placement fee for these services is $5.00 each year the prospective employee wishes his credentials brought up-to-date and made available for use.

Admission Policy

ADMISSION DATES

September 1	Applications accepted for Early Decisions.
December 15	Latest date for Early Decision files to be completed.
September 1	Applications accepted for regular admissions.
February 1	Selection of regular candidates begins.
March 1	Students are encouraged to apply for Financial Aid by this date.

Whitworth College offers educational opportunity in the rich tradition of the liberal arts college. It seeks students who will be successful and who will derive maximum benefit from such an experience.

SELECTION OF STUDENTS

The enrollment at Whitworth College is limited, and therefore each student is admitted on a selective basis. The case of each student is given careful individual attention.

Some of the criteria used by the College in making estimates of probable success are the College Entrance Examination Board Scholastic Aptitude Test scores, the various high school courses taken and the quality of work done, a prediction of academic success in college based upon a formula especially developed for Whitworth College, the extra-curricular high school records, interests, ambitions and maturity, and other evidence of ability and intelligence.

Graduation from an accredited high school is required. The pattern of high school units listed below shall be followed in preparing for admission to freshman standing:

	Strongly Recommended
English	4 units
History and Social Science	2 units
Mathematics	2 units
Foreign Language	2 units
Laboratory Science	2 units
Electives	4 units

TYPES OF ADMISSION

1. Regular Admission

Selection of regular candidates begins February 1 each year for the following September class. It is advisable to file admission credentials as soon as possible after completion of the first semester of the senior year.

2. Early Decision

Candidates may apply between September 1 and December 15 for early decision provided they have maintained a 3.00

academic grade point average through their junior year in high school. This is contingent upon satisfactory completion of their high school course and acceptable scores on the College Entrance Examination Board Scholastic Aptitude Tests taken not later than the January administration.

3. Advanced Standing Admission

A qualified student in good standing at an accredited institution may apply for admission with advanced standing. Such students must submit an official transcript from each institution of college level the applicant has attended, and the results of the College Entrance Examination Board and/or other entrance examination scores if available. Such an applicant is expected to have the same high school preparation as the student who enters as a freshman and he must have at least a cumulative grade point average of 2.00 in his college work.

Credit not to exceed 60 semester hours plus four semester hours on P.E. activity taken at a Junior college is transferable if the course is completed while the student is classified as a freshman or sophomore.

Since twenty-eight semester hours of resident requirement is specified at Whitworth, the maximum transfer credit allowed will be 96 semester hours toward a four-year degree. Any additional credits will be acceptable to meet specific requirements, but not as credit required to meet the total of 124 required for graduation.

Students transferring from unaccredited colleges may apply for advanced standing during the first year of attendance. Final evaluation of such credit will be withheld until the student has completed one full semester at Whitworth after which time courses which appear to be comparable in content may be validated by examination or by taking advanced work. In some instances where a student has taken an Honors course in high school which has been over and above that required for graduation, application for credit may be made and the Registrar and department involved will render a decision after careful investigation and/or examination.

4. Advanced Placement Admission

High school students who take the College Board Advanced Placement Examinations may apply for advanced credit up to a total of 16 semester hours in courses which they have made a score of at least 3, 4, or 5. However, in each case the department involved must approve the credit.

Students who fall below the "3" score in the CEEB Advanced Placement Examinations may be recommended for advanced placement. This means that they might be exempted from taking the beginning course of a subject and be permitted to enter the second semester or second year of the subject. It is possible that this might be done when the professor involved does not feel that the student has had sufficient background to warrant the granting of actual credit. Also, students may challenge some requirements and prerequisites and receive advanced placement, but no semester hour credit is recorded.

5. Special Admission

Students 25 years of age or over whose educational background has been of an irregular nature, but who nevertheless through examination and other pertinent evidence demonstrate their ability to do successful college work, may be admitted by special action of the Admissions Committee.

ADMISSION CREDENTIALS

The following credentials must be received by the Admissions Office before new freshmen or transfer students may be considered:

1. Application for Admission

The Washington uniform **Application for Admission to Washington Higher Institutions** may be obtained from the Director of Admissions. This form should be completed and given to the high school counselor to be forwarded with items 2 and 3 below.

2. Transcript of High School Record

Forms are included in the Washington uniform Application for Admission to Washington Higher Institutions, and are to be sent by a high school official.

3. Personality and Test Record

Forms are included in the Washington uniform Application for Admission to Washington Higher Institutions, and are to be sent by a high school official.

4. Scholastic Aptitude Test

This test of the College Entrance Examination Board is required for all freshman applicants. Candidates are encouraged to take the S.A.T. in December or January. Transfer Students who have completed at least one full year of college work are not required to submit S.A.T. scores. Arrangements for the examination may be made with the senior counselor of the high school or by writing directly to the Board for the Bulletin of Information. Candidates applying for examination in the states of Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, or Wyoming, the Canadian provinces of Alberta, British Columbia, Manitoba, or Saskatchewan, the Northwest Territory or Yukon Territory, the Republic of Mexico, Australia, or the Pacific Islands, including Japan and Formosa, should write to the C.E.E.B., Box 1025, Berkeley, California. All others should address the Board at Box 592, Princeton, New Jersey.

5. Statement of Purpose

The Whitworth College Statement of Purpose form is available from the Director of Admissions.

6. Fees

The Application Fee ($10) must accompany all applications. This is a service fee and is not refundable.

CREDENTIALS FOLLOWING ACCEPTANCE

Candidates are requested to complete items 1 through 5 listed below as indicated. Admission is **not complete** without compliance with this request.

1. Reply to the Director of Admissions no later than the first Monday in May indicating the acceptance of our offer of admission.

2. Complete and return the blue Residence Information Form whether or not you will live on campus.

3. Accompany the reply with an advance room deposit of $50.00 if you are planning to live on campus. Room reservations will be made in order of receipt of advance room deposit fees. Please note that the $50.00 deposit **cannot be refunded** unless housing cannot be provided.

4. Have a practicing medical doctor complete the Washington College Entrance Medical History and Physical Examination form and forward to the Director of Admissions within 30 days following the date of your acceptance **reply.**

5. Submit a small photo (for guidance purposes).

WASHINGTON PRE-COLLEGE TEST

All entering freshmen must take the Washington Pre-College Test prior to registration. Residents of the State of Washington should arrange to take this test during the senior year. Students who have not had an opportunity to take the test through their high school officials will be required to take it at the scheduled time during orientation week.

FINANCIAL AID APPLICATIONS

The following forms are required of all financial aid applicants:

1. Whitworth Financial Aid Request Form

This form is available from the Director of Admissions and should be sent directly to the Office of Admissions.

2. Parents' Confidential Statement

This form is available from the high school or the Director of Admissions and should be mailed directly to the College Scholarship Service, Box 1025, Berkeley, California, or Box 176, Princeton, New Jersey, along with the $3.00 fee and the request that a copy be forwarded to Whitworth College.

GRADUATE STUDENTS

All candidates for graduate study are required to do the following:

1. Complete official Graduate Admission Application and send to the Director of Admissions.

2. Those working toward a Whitworth College degree must submit an official transcript record to the Director of Admissions of all study beyond high school including work started or completed. Those wishing transfer credit must submit a form indicating honorable dismissal from the last school attended. This form may be secured from the Director of Admissions. These records will not be returned to the student.

(Read carefully the provisions listed under Master's Degree in the index.)

EVENING SCHOOL AND SUMMER SCHOOL STUDENTS

Applications and bulletins of general information for Summer School and/or Evening School may be obtained from the Director of Admissions. Applicants should submit completed applications and the $10.00 application fee to the Office of Admissions. At registration each applicant working toward a Whitworth College degree must provide a transcript. The transcript must be requested from the last college or university attended. Students who have never experienced any college or university work must provide a transcript from the high school last attended. All transcripts must bear an original signature of an official of the institution represented. Applicants desiring transfer credit must submit the Letter of Good Standing form which may be secured from the Director of Admissions. Students wishing to audit courses must submit an application only and are responsible for all fees with the exception of the application fee.

HONORS AT ENTRANCE

A limited number of entering freshmen are selected for Honors at Entrance, the highest recognition that can be given a beginning student. The basis for making this award is related to outstanding achievement in high school in one or more areas of endeavor. These are outstanding academic performance, high proficiency in specific areas of study, and prominent honors in activities in high school, church or community. No specific financial grants are offered with these awards, but students with need as determined by the financial need analysis of the College Scholarship Service, may receive financial assistance in addition to Honors at Entrance.

Financial Information

All charges made by Whitworth College are due and payable at the beginning of each semester. A student shall be considered fully registered and be permitted to attend classes only after satisfactory financial arrangements have been made with the Business Office of the College.

The College reserves the right to change its charges at any time without previous notice. However, after the begin-

700
410
290 Need

1187 due per semester
515 scholarship per semester
672 to earn per semester

ning of a semester, no changes will be made to be effective within that semester. All charges quoted are for one semester.

No student will be permitted to combine day school and night school hours to meet the full-time (12 hour) requirement for dormitory occupancy.

Any student taking nine or more hours in the day program cannot register for more than three hours in the night program.

All tuition charged for the evening school is over and above the Regular Tuition (12-16 semester hours) or the Part-Time tuition for day school.

TUITION

Regular Tuition (12-16 semester hours) per semester	$575.00
Additional Tuition, Project Able students per semester	80.00
Excess above 16 hours, per hour	30.00
Part-time (9-11 semester hours) per hour	44.00
Part-time (under 9 semester hours) per hour	47.00
Graduate Tuition (Graduate students taking 9 hours or less of regular graduate courses (courses over #500 or marked G) per hour	27.00

BOARD AND ROOM

New Dormitory	$400.00
Stewart Hall (Men) per semester	400.00
Warren Hall (Women) per semester	400.00
Arend Hall (Men) per semester	400.00
All others	375.00

Room and Board charges do not cover the regular college vacation periods. The payment of room rent does not entitle students to use of room accommodations during these periods when the buildings may be closed.

GENERAL FEES

Student Association Fees per semester	$21.00
Student Association Fee, Special Hub Projects, per semester	6.50
Student Union Building Fee, per semester	7.50
Natsihi Fee (For first semester a student attends college each year)	5.50
Student Health & Accident Insurance Fee (12 month coverage) per semester	10.75

The general fees are charged to all students who register for 9 hours or more in the day school program of the College. The proceeds are used for the support of student publications, student union building, student government, forensics, dramatics, athletics, and ASWC social functions. The fee also covers free admission to all home athletic contests.

DORMITORY BREAKAGE FEE	$10.00

This fee, or unused portion of it, is refundable at time of student's graduation from the College, or withdrawal.

MISCELLANEOUS CHARGES

Auditor's Fee (for part-time students and for those taking no work for credit; permitted in lecture courses only) per hour	10.00
Special Auditing Fee (for students registered full-time) per hour in excess of 16 total hours	3.00
Change of Registration (after first week)	1.50
Graduation Fee (Bachelor's Degree)	12.50
Graduation Fee (Master's Degree)	15.00
Guidance Fee for testing	2.00
Late Registration (After First Week)	2.00
Matriculation Fee (Included in application)	10.00
Textbook Fee (Where textbook is not specified in class)	1.00
Validation Fee, per hour	1.00
Car Registration Fee	2.00
Car Registration, Late Fee	5.00
Traffic Violation Fee (each violation)	2.00
Failure to Display Car Sticker:	
First offense	5.00
Second offense	10.00

APPLIED FEES

Private Lessons in Art, Music, Speech:	
Organ (1 lesson per week)	$ 60.00
Voice or Instruments (1 lesson per week)	60.00
Speech or Art (1 lesson per week)	60.00
Voice and Instruments (2 lessons per week)	105.00

Students taking private lessons on instruments from special selected instructors must pay any additional amount the instructor may charge. Sophomore, Junior, or Senior Majors must pay any charge in excess of $60.00.

Practice Room Rental (For Students Not Taking Lessons.)

One hour per day—piano, voice, instruments	$ 5.00
Two hours per day—piano, voice, instruments	8.50
One hour per day—Organ	8.00
Instrumental Rental	7.50
Voice, Piano, and Instrument class, per credit hour	20.00

Note: Sophomore, Junior and Senior Music Majors may have the fee for Applied Lessons (not to exceed $60.00 a semester) waived if they bring a signed slip from the head of the Music Department at the time they present their registration to the Business Office.

EDUCATION FEES

Profession Fee (Charged to all Junior and Senior Students in teacher training program, payable first semester of each year only)	$ 5.00

Cadet teaching fee

6 semester hours (in addition to tuition)	$ 13.00
8 semester hours (in addition to tuition)	17.00
12 semester hours (in addition to tuition)	25.00
14 semester hours (in addition to tuition)	30.00
TEACHER PLACEMENT FEE	5.00

OTHER FEES

Bowling Fee (1 hour credit per semester)	$ 20.00
Skiing Fee (1 hour credit per semester)	25.00

SUMMARY OF COSTS

Following is a summary of costs for a full college year (two semesters):

Charge	Dormitory Resident	Off-Campus Resident
Tuition	$1150.00	$1150.00
Room and Board	$750.00—800.00	
Student Association Fees	75.50	75.50
Books and Supplies (estimate)	110.00	110.00
	$2085.50—2135.00	$1335.50

The above summary does not include personal and incidental expenses, which will vary according to the personal tastes and spending habits of the student.

EXTENSION OF FINANCIAL CREDIT

For the convenience of those students wishing to pay their college costs over a longer period, rather than in full at registration time, the College offers such a service through Tuition Plan, Inc., and Education Funds, Inc. Tuition, Room and Board, and Fees may be included in the contract plan. A descriptive folder on these plans may be had by writing the Admissions Office of the College.

Transcripts of record and diplomas of graduation will not be issued until all accounts are fully paid, nor will grades be made available until financial arrangements have been satisfactorily made with the Business Office.

REFUNDS

TUITION, including private instruction in art, music, speech, bowling, and skiing.

Date of Withdrawal	Percentage of Refund
Before end of second week	85%
Before end of fourth week	70%
Before end of Mid-Semester	40%
After end of Mid-Semester	none

ROOM AND BOARD

No refund of Room rental will be made. In case of withdrawal from campus residence, Board charges will be refunded on a pro-rata basis.

NO REFUND OF FEES WILL BE MADE.

ALL REFUNDS MUST BE CLAIMED THROUGH PROPER APPLICATION TO THE BUSINESS OFFICE. THE DATE OF SUCH APPLICATION WILL BE USED TO ESTABLISH THE REFUND PERIOD.

PART-TIME EMPLOYMENT

Whitworth College makes every possible effort to assist young people meet the financial obligations related to obtaining an education. Many opportunities are available on campus in the dining hall, in caring for the buildings and grounds, and in the clerical and secretarial area for students who must obtain some work in order to help with college expenses. Opportunities for work in Spokane occur chiefly in domestic and office assistance, personal service of various kinds, canvassing, manual labor, etc. Students who find it necessary to work during the regular college year may wish to reduce their academic load accordingly.

Laboratory Assistantships are available to students majoring in biology, chemistry, and physics. Personality, scholarship, technical skill, and financial need will be considered in awarding these assistantships.

For especially needy students, a number of jobs are avaidable through the Economic Opportunities Act of 1964.

Applications for on-campus and off-campus employment are handled through the Placement Office.

VETERANS' EDUCATION

Whitworth College is approved to provide training under Public Law, Chapters 34 and 35, Title 38, in cooperation with the Veteran's Administration. Under these laws, the student receives a lump sum from which he pays for his own tuition, fees, and other expenses.

Financial Aid

Financial aid, in both grants and loans, is on a competitive basis. Unless otherwise noted, these will continue only if the student maintains at least a 2.25 grade point average.

SCHOLARSHIPS

Whitworth College offers a limited number of scholarship grants each year to applicants with financial need and superior academic performance as evidenced by the student's secondary school record and College Entrance Examination Board Scores or by record in previous college studies. These grants divide into three basic categories:

1. Academic Scholarships (usually half-tuition each) To qualify for such a scholarship, high school seniors must rank high in their graduating class. Current students and transfer students must have a grade point average of 3.25 or better in all previous college studies.

2. Activity Awards (varying amounts, usually $100) Students making application for awards must have cumulative average of 3.0 or better and have record of superior performance and capacity in special activity or study areas. These special study or activity areas considered are art, music, drama, forensics, science, and journalism.

3. Miscellaneous (varying amounts) Usually these grants

are given by individual or group donors and have a wide range of qualification patterns.

In applying for a scholarship grant, an applicant must submit regular admissions credentials (see page 7) and also complete the COLLEGE SCHOLARSHIP SERVICES application furnished by either the college or the high school. The applicant should clearly indicate the amount of scholarship aid needed, and the Scholarship Committee will determine the type of scholarship funds for which he is eligible. A scholarship application must be completed by February 20 to be considered for the following year. Whitworth College is grateful for the following funds which have been given to help worthy and needy students:

SCHOLARSHIP FUNDS

The Alumni Association Scholarship
The Dave Barnes and Aubrey M. Leavitt Fund
Dr. Amos P. Bratrude Scholarship Fund
Ernest E. and Margaret Jenny Brown Memorial Scholarship Fund
The Consolidated Charities Scholarship Fund
The Glen and Dorothea Cotterel Memorial Scholarship for Foreign Students
The Crown Zellerbach Scholarship
John Culler Scholarship Fund
The First Presbyterian Church, Seattle, Scholarship
Robert H. and Grace Gaines Scholarship Fund
The Hammond Memorial Fund
Lloyd L. Harder Memorial Fund
Ida B. Johnston Scholarship Fund
William Kay Memorial Scholarship Fund
The Pearl H. King Memorial Fund
Rev. J. Renwick McCullough Memorial Scholarship Fund
Dr. William L. McEachran Memorial Scholarship Fund
The Wm. Moir Memorial Scholarship Fund
Jane Bagnall O'Brien Nurses Scholarship Fund
The Mary E. Quackenbush Scholarship Fund
Reader's Digest Scholarship
Grace A. Stayt Scholarship Fund
The R. S. Stevenson Scholarship
Ingwer W. Thomsen Scholarship Fund
Jean Villars Memorial Music Scholarship Fund
Mary Elizabeth Waltz Scholarship Fund
The Esther Weitzman Scholarship Fund
The Westminster Shorter Catechism Scholarship
Ethel Fairfield White Scholarship Fund

LOAN FUNDS

Mr. and Mrs. Franklyn Armstrong Loan Fund
David Barnes Memorial Loan Fund
George N. Beard Memorial Loan Fund
Mary Katherine Crim Memorial Loan Fund
Frances Gilbert Hamblen Memorial Loan Fund
Elizabeth Hewit Memorial Loan Fund
Annie E. Marshall Loan Fund
Otis and Elizabeth Merritt Loan Fund
Earl Oatman Memorial Loan Fund
Jane Bagnall O'Brien Nurses Loan Fund
Josie Shadle Memorial Loan Fund
Stevens-Swanby Loan Fund
Sarah A. Stewart Memorial Loan Fund
Ingwer W. Thomsen Loan Fund
David and Emma Thorndike Memorial Loan Fund
Vicker Rotary Memorial Loan Fund
Dr. L. N. Williams Memorial Loan Fund
Helen Bishop Herbage Loan Fund
National Defense Student Loan Fund
U.S.A. Fund Loan Fund

GRANTS-IN-AID FOR MINISTERS' AND MISSIONARIES' FAMILIES

A grant-in-aid on tuition of 25 per cent per semester is available for unmarried dependent sons and daughters of ordained ministers actively engaged in church vocations on a full time basis. Under certain circumstances this grant-in-aid is extended to the unmarried dependent children of lay missionaries in foreign fields. This grant-in-aid is continuous after the first semester on condition that an average scholarship grade of at least C shall have been earned in the preceding semester. It is also understood that the scholarship will be continued on the basis of full cooperation by the students in the program of the College. This aid is granted if formally requested in writing by the parent. It does not apply for graduate students.

Student Activities

The extra-curricular activities at Whitworth College are maintained for the purpose of giving the student opportunity for the development of personality and leadership abilities. These activities are considered important in the education of the whole person. The student organizations and activities are designed to meet a wide variety of tastes, and it is desirable for a student to select those activities that appeal particularly to him. It is also important that a student learn to balance his academic pursuits with extra-curricular activities in correct proportions, never forgetting that he is primarily a student. It is suggested, therefore, that a new student not join clubs or organizations during the first few weeks of his first semester.

In order to be recognized as a Whitworth College organization a group must have a written constitution and by-laws sanctioned by the Student Organizations and Elections Committee and the faculty. All constitutional amendments and by-laws of the organization must also receive the sanction of the SOEC, the student executive board and the faculty. No organization shall function or be recognized until official

notice of approval has been given to the applying organization by the faculty. Each student organization must have a faculty adviser with whom it counsels as to the programs and policies. The adviser is held responsible for reports on the character of the work of the organization and also the individual membership.

ASSOCIATED STUDENTS OF WHITWORTH COLLEGE

The Students' Association is the general organization of the student body. Voting members are those who have paid all their fees for the semester and are regularly enrolled. Membership entitles the student to a subscription to "The Whitworthian" (the student newspaper), admission to games played on the home grounds, a voice in the regulation and promotion of the student activities, and a copy of "The Natsihi" (the annual) at the student's price. The President, Executive Vice President, Vice President of Social and Cultural Affairs, Secretary, and Treasurer are chosen annually by the students. All officers of the A.S.W.C. must be upperclass students at the beginning of the college year following their election, and must have maintained a cumulative minimum grade point average of 2.6. The Secretary must be a woman.

The Student Senate is the legislative organization of the student body. It consists of representatives from each of the college-supervised living groups, representatives of the off-campus students. The ASWC President presides and the ASWC Secretary records the minutes of the actions of the Senate. This is the ruling body of the student association.

The Administrative Cabinet is an advisory board to the ASWC Executive. It consists of the class presidents and the presidents of AMS, AWS, and WCF.

The Judicial Board is the board of students that is designed to handle disciplinary problems. It consists of four seniors and three juniors. One of the seniors is appointed Chief Justice by the student executive board. This body works in close coordination with the Dean of Students in handling disciplinary problems.

STUDENT ACTIVITIES

Social life on the Whitworth Campus is under the general direction of the ASWC Social Committee. The chairman of this committee is the Vice President of Social and Cultural Affairs. The Coordinator of Student Activities serves as a consultant to this committee. Many traditional social events are held during the year and in addition many other affairs are held by individual classes, residence hall groups, and other campus organizations.

GENERAL STUDENT ORGANIZATIONS

A.M.S. The Associated Men Students is an organization which exists to promote the welfare and unity of all men

students and to promote their interests in the functions of Whitworth College.

A.W.S. The Associated Women Students is an organization which serves as an integrating body to strengthen the spirit of loyalty and good fellowship among women students. Its purpose is to develop cooperation between the Student Body and the administrative offices of the school, provide a means by which the women students may express opinions on matters of interest to them, and spiritually unite all Whitworth women.

A.T.S. The Associated Town Students has two goals at Whitworth: to promote a greater unity of campus and commuting students, and to aid the commuters while they are at Whitworth. It attempts to involve its members in the activities of the entire student body.

The Cosmopolitan Club is an organization for students from many countries, the purpose being to further the understanding and appreciation of other races and to provide an opportunity for lasting friendships in Christ with those of other cultural backgrounds.

Political Clubs: Both Young Republicans and Young Democrats have organizations on the campus. These are part of the national organizations and work closely with the county and state political organizations. The purpose is to train students to take an active part in this vital aspect of citizenship.

DEPARTMENTAL ORGANIZATIONS

A.G.O. The Whitworth Student Chapter of the **AMERICAN GUILD OF ORGANISTS** is designed to promote high ideals in church music, particularly in the field of organ repertoire and performance.

Alpha Beta, "The Best in Life," is a home economics group offering to Whitworth College women opportunities to promote the best ideals of the home.

The Engineers Club is a fellowship among the engineering students. It sponsors field trips, technical motion pictures, professional speakers and discussion programs to encourage their personal and professional growth.

The Student Washington Education Association seeks to promote and further interest in the teaching profession, and to develop spirit on the part of college students preparing for this profession.

M.E.N.C. The Whitworth Chapter of **MUSIC EDUCATORS NATIONAL CONFERENCE** is composed of Music Education majors or minors. Its primary function is service and contact with professional music education through conventions and local meetings.

The Pep Band is a group which contributes to the life of the college by providing music for games and for many other functions.

The Pre-Med Club gives those interested in the medical professions an opportunity to investigate and answer problems peculiar to their group.

The "Psych" Club is an organization that sponsors special meetings and activities for all students interested in psychology.

The Ski Club is a group of students organized to promote winter sports on the campus and to provide means during the winter months for trips to the Mt. Spokane skiing area for skiing enthusiasts.

The Tri-School Chapter of Student Affiliates of The American Chemical Society is a group which promotes professional interest and fellowship among students majoring in chemistry. Interesting meetings, discussions with prominent scientists, and field trips are arranged by the participating groups from the campuses of Whitworth College, Gonzaga University and Eastern Washington State College.

The W Club is made up of varsity award winners in intercollegiate athletics. Its chief interests concern the promotion of athletics and recreational activities of the college. It also exists to involve athletes in all-campus activities and to make a worthwhile contribution to Whitworth College both on and off the field.

The Whitworth Business Club is composed of majors and minors in the Department of Economics, Business Administration and Secretarial Science, under advisorship of the head of the Department. The basic purpose is to develop a relationship between business students at Whitworth and the economic world, and to keep informed on current business and economic affairs.

The Whitworth College Physical Education Club has been organized to advance the standards of its profession. Membership is open to all majors and minors in physical education.

The Writers Club, which meets monthly, is an informal group of those interested in creative writing.

HONORARY STUDENT ORGANIZATIONS

Alpha Psi Omega is the first national fraternity on the campus as well as the first cast of Alpha Psi Omega in the State of Washington. Its membership is made up of the students who have the distinction of becoming members of the Theta Rho cast of Alpha Psi Omega, National Dramatic honorary Fraternity.

The Pirette Club is made up of women students of the Sophomore, Junior and Senior classes, who have high scholarship and have made outstanding contributions to the extra-curricular program of the college. They are selected for membership by the Student Council.

Phi Alpha is the honorary scholastic organization of the college. Seniors who have attended Whitworth College for one year and have maintained a 3.5 G.P.A. may be elected

to active membership, while juniors may be elected to associate membership.

Beta Beta Beta is a national biological honorary organization for biology students, who have maintained in their first four semesters of work, a cumulative grade average of 2.7 in addition to a 3.0 average in the biological sciences. The local chapter is Epsilon Kappa. Its purpose is to stimulate sound scholarship, to promote the dissemination of scientific truth, and to encourage investigation in the life sciences.

Mu Phi Epsilon. Alpha Psi is the Whitworth Chapter of Mu Phi Epsilon, international sorority for professional women musicians. Its primary emphasis is service, scholarship, and performance in the field of music.

Pi Kappa Delta is a national forensic society for those who participate in intercollegiate forensic activities.

Psi Chi is a national honorary society for students of psychology.

The Whitworth Knights is formed to recognize superior male scholarship and to promote and foster college spirit. It engages in numerous service activities.

RELIGIOUS LIFE

Chapel is held each Monday and Wednesday and **Convocation** each Friday. Attendance is required. Worship is emphasized as an important part of the chapel services. Because of the proximity to the city of Spokane, the College is able to present a number of outstanding speakers and programs each year in these assemblies.

Church Services. Sunday Church School and morning worship services are held each Sunday in the Whitworth Community Presbyterian Church which immediately adjoins the campus. Many students and faculty members join there in worship with people of the surrounding community. Churches of all denominations in the city offer opportunities for worship and service to our students. Each Sunday evening there is an all-college vesper service on the campus at which time leaders of churches throughout the entire Northwest are invited as speakers.

Men's and Women's Conferences. Two outstanding annual events are the men's and women's week-end religious conferences, planned by student committees. These conferences, led by well-known Christian leaders, have become important milestones in the lives of many students.

Spiritual Emphasis Week. Special days are set aside in the fall for an emphasis on spiritual life and Christian service. This event is sponsored and planned by the Whitworth Christian Fellowship and the administration of the college. A prominent Christian minister or missionary is brought to the campus at such time for a series of messages and personal counseling with the students.

Whitworth Christian Fellowship. The Christian activities of the campus are centered in the Whitworth Christian Fellowship. The officers are elected by the students and serve as directors and coordinators of the religious life of the campus. This includes conducting all-school vesper services on Wednesday and Sunday evenings, organizing Bible study and prayer groups, supplying gospel teams and volunteer workers for nearby churches, and promoting Spiritual Advance days and Spiritual Emphasis week.

EXTRA CLASS ACTIVITIES

Many opportunities are given to Whitworth students both to participate in and to enjoy activities apart from academic work. Whitworth encourages each student to develop interests in some form of activity.

College Publications. Student publications are under the direction of the Associated Students of Whitworth College through the publications council.

The Whitworthian, the student newspaper, is published weekly. Any student is eligible to serve on the staff.

The Natsihi, devoted to recording the major activities of classes, clubs, etc., of general college interest, is the annual publication (year book) of the Student Body.

The Pines is the yearly anthology of student writings which appears in the spring. It includes poetry, short stories, descriptive pieces, character sketches and drama.

The Compass is the student information booklet published yearly. It contains general information about college life and is intended primarily for the benefit of new students.

Dramatics. Under the supervision of the department of speech and drama, several plays are presented each year. Each student, whether enrolled in any speech course or not, is given opportunity to try out and participate. Whitworth has a chapter of Alpha Psi Omega, a national dramatic honorary fraternity on the campus. Membership comes through active participation in college productions.

Athletics. The Whitworth program affords opportunity for the student to increase or develop his interests and abilities in physical education as a career or as an avocation.

The general program includes experience for men, both intercollegiate and intramural, in football, basketball, baseball, track, tennis, golf, swimming, and wrestling.

Whitworth College is a member of the Evergreen Conference offering to men intercollegiate competition in eight different sports.

Women engage in basketball, softball, tennis, archery, volleyball, swimming, badminton, and rhythmic activities.

Music. The general program of the music department provides experience in such organizations as chorus, a cappella choir, wind ensemble, orchestra, as well as small instrumental and vocal ensembles. Opportunity for travel, as well as participation in broadcasts over major radio stations of the Northwest, is afforded these organizations.

Forensics. In order to obtain experience in intercollegiate competition, activities include debate, extempore speaking and oratory. These activities are under the direction of the department of speech but are not limited to those in the department.

Administrative Policies

RESIDENCE HALL REQUIREMENTS

Single undergraduate students not living in their own homes and carrying 12 or more semester hours are required to live in the college residence halls, unless they obtain permission to live elsewhere from the Student Personnel Committee. Application for such permission must be made on forms secured from the Dean of Students Office. Off-campus students may live only in approved residences which must be properly supervised. In no case will men and women students be permitted to live in the same building. Students working off campus for board and room must have prior consent of the Dean of Students.

Women students under 21 years of age are not permitted to travel by car beyond the boundaries of Washington and North Idaho except upon receipt of written permission from parent or guardian. Freshmen women desiring to stay overnight off campus are required to have written permission from their parents for each such occasion.

Each resident student is expected to supply himself with the following: Bed linen for single beds, curtains, rugs, desk lamps, etc. (draperies will be furnished in Warren, Calvin, Arend, and Stewart Halls.) Each student is expected to care for his own personal laundry and linen. Special laundry facilities and a complete linen service are available on a weekly basis through a local laundry. Also, laundry facilities are provided in each residence. All linen and clothing should be plainly marked with name tapes. Personal belongings may be sent in advance to the college. When this is done they should be addressed to the owner in care of Whitworth College.

The College dining room and residence halls will be open for all students on the afternoon preceding the beginning of orientation days and closed throughout the Christmas and Spring vacations. If students wish to remain in residence during vacations and such facilities are available, special arrangements must be made through the Dean of Students office since yearly room and board charges do not cover these vacation periods. Students living in residences are expected to carry a minimum academic load of twelve semester hours unless granted special permission for reduced load by the Dean of students.

All student automobiles on the campus must be registered with the Dean of Students (fee, $2.00) and must display the registration decal. Freshmen residing on the campus may not bring cars without specific permission of the Dean of Students. Complete regulations are available in the Office of Student Personnel Services.

STUDENT CONDUCT AND DISCIPLINE

Whitworth College seeks to inspire in its students a high standard of conduct on the basis of Christian ideals. Students are expected to respect the college, its regulations, and property and to respect the rights of other both off and on campus. Students are expected at all times when participating in any activities to have their behavior reflect positively upon themselves personally and upon Whitworth College. **Students shall not use intoxicating liquors at any time** and the use of tobacco on the campus is prohibited. The administration of Whitworth College reserves the right to exclude at any time students whose conduct or academic standing it regards as unsatisfactory. Neither the college nor any of its officers shall be under any liability whatsoever for such exclusion. The Dean of the Faculty may at any time dismiss the student from a course if, in his judgment, the student has neglected the work of that course. It is understood that students may not receive financial aid, may not participate in extra-curricular student activities nor represent Whitworth College to the public or in intercollegiate activities if they are on academic or disciplinary probation or if at any time they fail to discharge their academic or personal responsibilities.

DISCIPLINE

Discipline of students on the Whitworth Campus is handled as much as possible in a democratic manner. Each residence hall has a democratically selected judicial board which deals with problems having primarily intra-dorm significance. Problems having broader significance or dealing with interresidence hall problems or situations concerning student relations with the public are dealt with by the Student Judicial Board selected by the students from the entire campus. Problems of an even more serious nature are dealt with by the Conduct Review Committee of the faculty. Depending upon the seriousness of the situation, penalties may vary from a small fine through personal probation, disciplinary probation, suspension, or dismissal.

Disciplinary Probation: Disciplinary action will be entered on undergradute transcripts for transfer. Upon completion of work and recommendation for a degree, disciplinary actions on transcripts will be blocked out.

HEALTH SERVICES

A student health center is provided for all regularly enrolled students. This consists of a dispensary, infirmary and out-patient medical care. The staff includes a supervisor, a medical director, a psychiatric consultant, and graduate nurses. Twenty-four hour nursing care is provided. Medications and prescriptions are available to students at a reduced rate.

A complete program of accident and sickness insurance is made available to all students at a modest fee and all students are urged to participate. No other health or accident insurance is carried by the college.

PERSONAL PROPERTY REGULATIONS

Neither Whitworth College nor its officers or organizations are responsible or liable in any way for damages done to property or persons in case of accidents in and around the college buildings or on trips representing the college in any activity. Students, faculty, and others participating in any college function on or off campus do so **at their own risk.** The college is not responsible for jewelry, money, or other articles left in students' rooms, classrooms, or elsewhere on college property.

College property damaged by students will be replaced from the student's residence hall breakage fee deposit. In case the breakage exceeds the deposit fee, the student will be charged for the balance.

Firearms of any kind are permitted on the campus only with the express permission of the Dean of Students or his representative. All firearms must be made inoperable and deposited with the appropriate resident counselor. In addition, there is absolutely no firing of firearms either on campus or within restricted areas of Spokane County according to county ordinances. No explosives, including fireworks, are permitted on campus.

Academic Regulations

Each year the College gives careful attention to the selection of incoming students who may best profit from the type of instructional program which is offered. Studying in college is often quite different from that of an earlier learning experience. In view of this, it is also important that each student receive the best possible academic counseling. It is also important that he carefully observe the policies of the school with regard to attendance at class and the appropriate load which he should carry in the light of his extra-class activities. The academic offices have been arranged to provide each student with the information which will be most helpful to him in attaining the educational goals which he has set for himself. If each student gives careful attention to the academic regulations which follow, he will experience little difficulty in understanding the entire integration of the academic program.

ACADEMIC LOAD

Fifteen to sixteen hours is the normal schedule. An average grade of 3.00 (B) in the preceding semester is required for an eighteen hour schedule. A failure in any one course in any semester will lead to a reduction of a student's schedule in the succeeding semester.

Students may audit lecture courses after registering and paying the special charges listed under Fees. For other classes they must pay full tuition even though registered as an audit. In calculating the academic load one-half the number of hours audited is counted. An audit course cannot be changed to a credit course after the third week of the semester. When space is limited in a class, preference will be given to those who are taking the course for credit.

Students will not be permitted to enroll for courses at another college or take work by correspondence or extension through other institutions while attending Whitworth College except in cases where special permission has been given by the Dean or the Registrar.

In general, students who work from one to two hours per day may take a normal load of from 15-17 semester hours. If students increase the amount of hours which they work per day, it is expected that their course load will be decreased proportionately.

ATTENDANCE POLICIES

Professors are expected to keep adequate attendance records, and students are required to attend class regularly. When a student has missed twice the number of class meetings per week, the instructor must notify the Dean of the Faculty in writing. When absences exceed three times the number of meetings per week, upon the recommendation of the Dean and the Instructor the credit may be reduced. It is the responsibility of the individual student to arrange in advance for, and to make up, the work missed. Unexcused absences on the two days preceding or following a holiday period will be treated as double cuts.

Students who find it necessary to be absent for a full week or more must appeal to the Academic Cabinet for such absence. If the absence is for more than one class session but less than a week, permission for re-entry will be secured from the Student Personnel Office. Single absences are cleared by the instructor of the course.

Chapel attendance is also checked regularly. If absences exceed nine, the grade of "F" is automatically recorded on the student's transcript. If a second "F" is received in Chapel, the student is suspended from the College. No student receiving an "F" in Chapel either semester of his commencement year is eligible for graduation. Excused absences must be cleared within one week of the date they

occur, or they will be marked unexcused. Whenever possible excused absences should be cleared in advance. Students who cadet and therefore attend chapel only half the semester are allowed a maximum of five absences.

CLASSIFICATION

A student's classification is determined at the beginning of each semester according to the following plan:

Sophomore—28 semester hours and 56 grade points.
Junior—60 semester hours and 120 grade points.
Senior—90 semester hours and 180 grade points.

CHANGE OF CLASS SCHEDULE

A student may withdraw from a class or change his registration only if such changes are filed in writing with the Registrar and approved as follows:

1. Within the first three weeks: Classes may be dropped after consultation with the adviser and with the approval of the Registrar. A "W" will be recorded.

2. After three weeks and before the end of the ninth week: Courses may be dropped with the approval of the instructor and the adviser or the approval of the Registrar. If the student is passing at the time of withdrawal, "W" will be recorded; if failing, "E".

3. After nine weeks and until three weeks prior to the close of the semester: Courses may be dropped with the approval of the Dean of the Faculty and with proper written notification to the Registrar. Either "W" or "E" will be recorded.

4. No regular full semester course may be added to a student's schedule after the third week unless for reduced credit. Sessions missed as a result of late admission will be counted as absences.

It is not possible to drop a course within three weeks of the end of the semester. Students must inform the Registrar when withdrawing from College; otherwise an "Unofficial Withdrawal" or an "E" will be placed on the permanent record. Both notations are treated as "F" in calculating grade point averages.

ELIGIBILITY REQUIREMENT

No student on disciplinary or academic probation may participate in any organized extra-curricular activity held on or off campus or represent the college or any organization in a public way.

EXAMINATIONS

Final. Final examinations are given in all subjects at the close of each semester. Students who for reasons of illness or necessity find it impossible to report for a final examination may petition the Academic Cabinet for permission to take a make-up examination. In no case will the examination be given in advance of the scheduled time.

Validating Validating examinations are given at scheduled times for the benefit of students who have had a given course and can show proof of having had the course for which they have no transferable credit, provided that the course corresponds to one offered at Whitworth College. (See validating credits for further information.) Such examinations will cost the student a fee of $1.00 per credit hour received.

Students seeking to validate credits must make applications through the Registrar for such validation during the first semester of residence and examinations for such validation must be completed before the end of the first year of residence. If certain courses which are required in given departments are not validated or waived during this time due to neglect on the part of the student, he must register for the course not later that the beginning of his junior year.

GRADES AND GRADE POINTS

Grades are given and recorded as follows: A represents superior work; B, Good; C, Satisfactory; D, Poor; F, Failure; V, Withdrawal; Y, Unofficial Withdrawal; X, Satisfactory without grade; I, Incomplete; O, Audit. Until cleared, an I or Y will be computed as an F in determining the grade point average.

An incomplete (I) is given when the quality of the work is satisfactory but some essential requirement has been delayed because of factors beyond the student' control. This mark is not given when the student has neglected work or, without permission, has failed to take an examination. The instructor giving an Incomplete must file with the Registrar a statement specifying the reason for the Incomplete, the amount of work yet to be completed, and the final grade to be recorded if the work is not completed within the specified time. Where final examinations are missed, no student may receive a passing grade until such work is complete. An Incomplete must be removed within six weeks. In cases of protracted illness or similar emergency, an extension of time may be granted by the Academic Cabinet.

In order for the student to remain in good academic standing he must earn at least twice as many grade points as he has hours. Grades carry the following grade point equivalents for each academic hour pursued: A, counts 4; B, 3; C, 2; D, 1.

HONORS

Two classes of honors are recognized at Whitworth.

1. **Dean's List:** Granted each semester to students carrying at least fourteen semester hours of work and making a grade point average of 3.3.

2. **Graduation Honors.** A student who has been in attendance at Whitworth for two of his four college years is eligible

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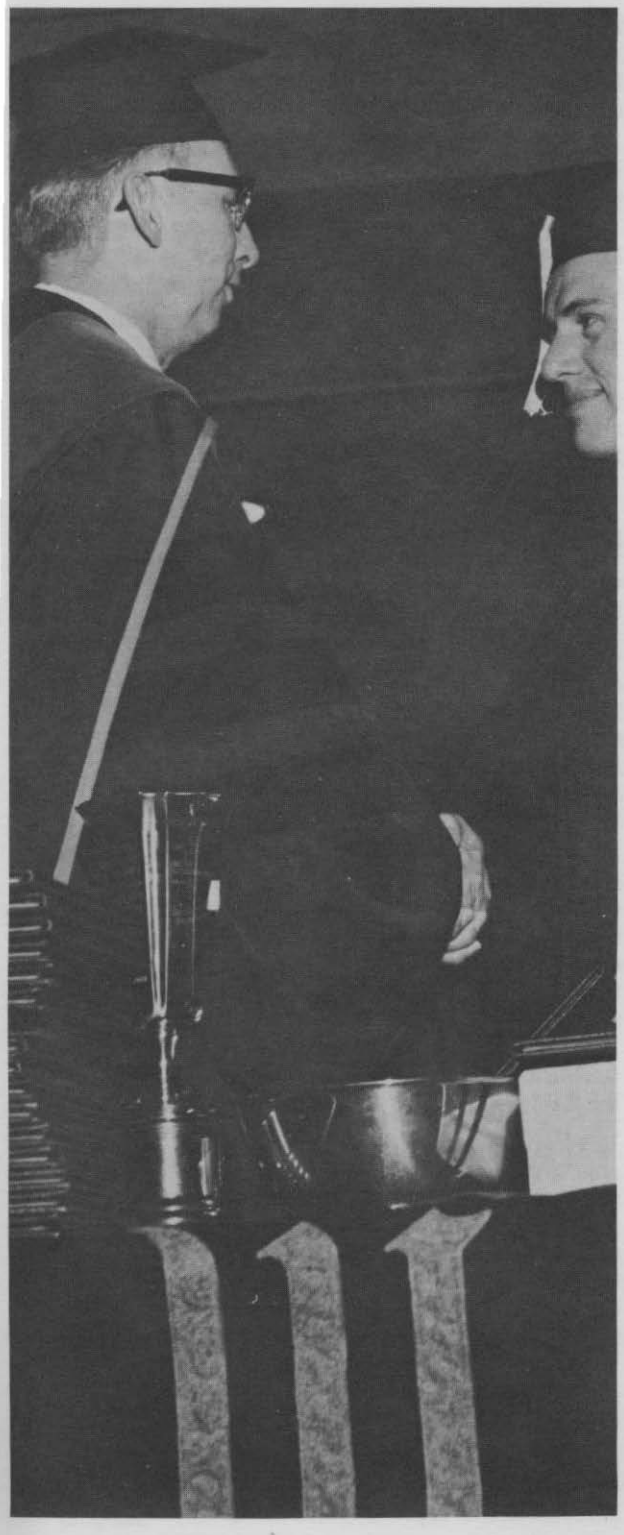


for the following honors: **cum laude** if he has earned an average of 3.5; **magna cum laude** if he has earned an average of 3.75; and **summa cum laude** if he has earned an average of 3.9. The requirement is based on the total 124 semester hours required for graduation.

HONORS PROGRAM

Since 1958, an Honors program has been available to gifted junior and senior students, enabling them to do independent work in their major fields and to develop their intellectual potential beyond the point usually achieved in regular courses. Students completing the program will be graduated with an Honors degree.

To enter Honors study a student must have a cumulative grade point average of 3.25 in all his subjects and a cumulative 3.5 grade point average in his major field, junior standing or higher, and approval of his major adviser and of the college Honors Council. The student must prove that he is able to do sustained independent study and creative thinking and organizing of a high order. He must be willing to subject himself to rigorous self-discipline.

An Honors student takes a minimum of nine credit hours in Honors seminars during his junior and senior years, substituting the seminars for the same number of hours of regular course work. Honors courses taken in the Junior Year will be numbered 380, 385 and 386, and in the Senior Year 495 and 496. He will complete a research project, write Honors papers or a thesis, and at the end of the senior year pass with distinction certain comprehensive examinations required by the Honors Council. Throughout his Honors work the student must sustain at least a 3.25 cumulative grade point average in all subjects and a cumulative 3.5 grade point average in his major.

Additional information about the Honors program may be secured from the Chairman of the Honors Council.

LOWER AND UPPER DIVISION WORK

Courses are divided into lower and upper division work. The lower division subjects, those numbered 100-299, are designed primarily for freshmen and sophomores. Lower division students are not permitted to enroll in upper division courses without permission from the Head of the Department in which the student seeks enrollment.

Upper division courses, those numbered from 300-499, are intended for junior and senior students only. A minimum of forty semester hours in upper division courses taken in the junior and senior year is required for graduation. The graduate courses are numbered 500 and above. Courses in the 300-400 group may be identified by the letter G and counted as graduate credit provided both the Director of Graduate Studies and the course instructor approve and provided appropriate additional work is completed.

Courses numbered 100-199 given on the lower division

level cannot under any circumstances be raised to the upper division level by additional work.

PERSONNEL AND GUIDANCE

The college seeks to assist each student by providing guidance in the selection of worthwhile goals and developing a plan of action for accomplishing these goals. To achieve this end, incoming freshmen are assigned to specific members of the faculty who serve as curricular counselors throughout the freshman year and until such time as the student has selected his major, when the head of his major department (or a member appointed by the head) becomes his adviser.

At the request of the individual student and in cooperation with the faculty adviser, the Office of Student Personnel Services makes available professional counseling in areas of vocational, educational, and personal problems. In the course of such counseling the results of interest, aptitude, achievement, and personality tests may be utilized. Additional counseling is available upon referral as needed. Further advisement is available through the office of the Dean of the Faculty and through referral to department heads and individual faculty members.

PROBATION AND SUSPENSION

A student who is not doing satisfactory work at the close of a semester is placed on Academic Probation. This is not a punitive measure but an attempt to discover the source of the problem and to encourage the student toward his highest efficiency. If excessive load, whether curricular or extra-curricular, has contributed to the difficulty, the student will be required to adjust his program as directed by his adviser. A student on probation is not permitted to participate in any inter-collegiate contest, to represent the college in any public activity, to receive financial aid, or to hold any elective or appointive office.

A freshman student is placed on probation if his average is below 1.75 for the semester.

In all other classes a student is placed on probation if the current semester grade point is below 1.75 or the cumulative average falls below 2.0.

Students are removed from probation upon the completion of a full semester (12 hours or more) of satisfactory work (2.0), provided the cumulative also reaches the following standards: Sophomores—1.9; Juniors—1.95; Seniors—2.0.

The Academic Cabinet reserves the right to cancel the registration of any student whose record warrants such action. Students who during the semester of probation have failed to obtain a 2.0 average will be suspended.

Excessive absences in Chapel may also result in suspension. See Attendance Policies.

REGISTRATION AND ORIENTATION

The first step in the registration process is to participate in all activities during Orientation Week. Through these activities, students will meet the faculty and students and become familiar with the college program. Attendance at orientation activities is required.

During the orientation period the Washington Pre-College tests are administered and required of all students who have not previously presented the results of these tests. The fee for the battery is $5 payable at the time of administration. These tests are not meant for admissions purposes, but are an integral part of the college program.

A fee is charged for late registration. Students may not be admitted to the college after the second week of the term except by special arrangments with the Dean of the College. No course can be added to a student's schedule after the third week, unless the course is one given on an accelerated basis or is taken for reduced credit.

Degrees and Requirements

UNDERGRADUATE DEGREES

Whitworth College offers two degrees which one may receive after successfully completing a four-year program: Bachelor of Arts and Bachelor of Science. General requirements for these baccalaureate degrees are given below. Additional requirements for the Bachelor of Science degree are listed under the various departments of the Natural Sciences Division.

A graduate of this institution, desiring a second bachelor's degree, is required to follow the curriculum of the second department and to present not less than 154 semester hours of credit. Not more than one four-year bachelor's degree may be granted at any one Commencement. One semester or two summer schools must be completed with a minimum of 15 additional hours since the first degree was conferred.

GENERAL EDUCATION REQUIREMENTS

To receive a Bachelor of Arts or Bachelor of Science Degree, a student must have satisfactorily passed 120 hours of study plus four semester hours of physical education. To qualify for graduation, a student must have accumulated a grade point average of 2.0 or a C and have maintained at least a C average in his major and minor fields. He must make formal application for his degree during the first semester of his senior year.

Forty semester hours in the program must be at the upper division level (courses numbered 300 or above, or the equivalent, and taken in the junior and senior years).

To achieve the objectives of a liberal education, courses are distributed to provide **basic skills, breadth** (general education), and **depth** (concentration).

FOR BASIC SKILLS

Written Communication **4 hours**

English 101 or Journalism 115 meets the course requirement. Freshmen entering with a high level of proficiency in writing may meet the requirement by special examination.

Oral Communication **2 hours**

Speech 110 normally is required, but by special examination an especially proficient student may secure permission to substitute another course. This requirement must be met in the freshman or sophomore year.

Foreign Language **One Language**

The requirement of a foundation in one foreign language may be met by two years of high school or one year of college study, or by special examination.

Physical Education **4 hours**

One activity course is to be taken in each of the first four semesters. Freshmen men are to enroll in a section of Body Conditioning 126 either the fall or the spring semester. Students other than physical education majors and minors may count only four semester hours of activity credit toward the baccalaureate degree. Activity courses may not be repeated for credit.

English Proficiency **Examination**

To be graduated, all students must demonstrate continued competence in the language maintaining the required standard for written work in all classes and by passing the English clearance test that is given in the junior year.

FOR BREADTH (General Education)

Natural Science **8 hours**

To satisfy this requirement, the student must select at least one course from at least two* of the following areas: biology, chemistry, geology, physics, and mathematics. (Not more than two hours of photography may be applied.)

Social Science **9 hours**

Courses are to be taken from the following fields: economics, history, political science, sociology, and psychology. (Not more than three hours of psychology may be applied.)

Religion **6 hours**

One course in Bible Literature (Group I Religion offerings) is to be taken in the freshman year, one in the sophomore year, and one in either the junior or the senior year. All students, including those who plan to transfer to another college, follow this pattern. Those who transfer to Whitworth in the junior year take three hours; in the senior year, two hours.

Electives **Variable**

In conference with his academic adviser the student chooses courses to broaden his understanding and to support his total program.

FOR DEPTH (Concentration)

Major **24-50 hours****

Not later than the close of the sophomore year, the student selects a major field of concentration. Usually the major is one academic subject, but there are some inter-disciplinary majors. These are described under the appropriate divisions. Specific requirements for all majors are given with the departmental or divisional course descriptions. Transfer students must take at least 6 hours in their major field at Whitworth.

Minor **At least 15 hours**

Specific requirements are given with the departmental course listings.

*One area will suffice when the student's major specifically requires sufficient hours in that area.

**The maximum in art and music is 60 hours.

GENERAL REGULATIONS

Residence Requirements

The student's last semester's work toward a baccalaureate degree must be taken in residence at Whitworth College except in cases of pre-engineering, pre-medical, pre-technological, pre-law, and medical records students, who may find it possible to use their professional school credits in lieu of their senior year.

Transfer students must have earned at least twenty-eight hours in residence at Whitworth College. Students transferring in their senior year must complete at least twenty-eight hours regardless of the total number already completed. Credits not to exceed 60 semester hours plus four hours of physical education will be transferred from a junior college toward a baccalaureate degree if the courses are completed while the student is classified as a freshman or a sophomore.

Extension Credit

Not more than thirty semester hours of extension and/or correspondence credit from a fully accredited college will be accepted towards a degree. This credit is only granted when general requirements have been met after the student has satisfactorily completed one year in residence at Whitworth College. No resident student may take work in or through another institution at the same time he is pursuing a course at Whitworth College unless he has obtained written permission from the Dean or the Registrar.

The college will accept USAFI courses taken through approved institutions, and a maximum of three courses taken independently. Other courses for which credit is desired must be validated by examination.

Attendance at Commencement Activities

A student will not be permitted to appear at graduation or participate in senior events if he has not completed the

required work for a degree. No degree will be granted in absentia unless special arrangements are made and permission is granted by the Academic Cabinet.

GRADUATE DEGREES

Graduate degrees are available to educators, youth leadership and guidance personnel, ministers and Christian Education personnel. All formal class work is conducted in the evening and summer school.

Whitworth College offers the following graduate degrees: Master of Education, Master of Arts in Teaching, and Master of Arts in Religion.

ADMISSION

Admission to Graduate Standing

1. Applicants must hold a bachelor's degree from an accredited college or university.

2. To be admitted to graduate standing an applicant must either (a) have a cumulative average of 3.0 or better, or (b) have a cumulative undergraduate average of 2.7 and at least twelve semester hours of graduate work with no graduate marks less than "B", or (c) secure the approval of the Graduate Council on the basis that the candidate prove that his past record is not indicative of present potential. (See special graduate student classification below.)

3. The work presented for admission must include a minimum of 16 semester hours in under-graduate or graduate education courses. Master of Arts in Religion Degree candidates should have 16 semester hours of psychology, religion, or philosophy.

4. All graduate study taken at Whitworth College beyond the prerequisite requirement of 16 hours in which the candidate has received a grade of "B" or above may be counted toward his graduate record.

Admission to Candidacy for an Advanced Degree

1. After the satisfactory completion of 16 semester hours of graduate work the student may apply for candidacy for an advanced degree.

2. Application for admission to candidacy for an advanced degree must be made prior to taking the last six semester hours.

Special Graduate Student

A student who has received his B.A. or B.S. degree from an accredited college or university, but who is not eligible for the regular graduate standing, may enroll for graduate courses as a special graduate student. After the satisfactory completion of 12 semester hours of graduate study in which he has received no mark less than a grade of "B", the student may petition for admission to Graduate standing.

GENERAL REQUIREMENTS AND POLICIES FOR MASTERS' DEGREE

1. Admission to the Graduate School.

2. Not more than 6 semester hours of graduate credit may be transferred from other colleges or universities.

3. Graduate credit six to twelve years old will be reduced by one-third; all credit beyond twelve years will be reduced by two-thirds. All credit beyond six years old will be restricted to the field in which the degree is being granted.

4. A minimum of 30 semester hours of study in approved courses.

5. *9 semester hours in education to be selected from the following:

Philosophy of Education
Comparative Education
Current Educational Thought
Advanced Principles of Education

6. Successful completion of an Educational Study or the writing of a Thesis. Six semester hours of credit may be granted for the thesis.

7. Successful completion of a comprehensive examination based on three foundational courses. Thesis candidates take an oral comprehensive examination.

*Not applicable to Master of Arts in Religion candidates.

8. Graduate courses in the Department of Education are numbered 500. Graduates may also select courses from departments other than education. **Approved** courses in the 300 and 400 areas in departments other than education may be taken for graduate credit and will be so indicated with the letter "G" following the number.

9. Graduate students who are fully employed will be limited to six hours of graduate study per semester in the Evening School.

10. No more than six semester hours of workshop credit can be applied toward a Master's degree.

SPECIFIC REQUIREMENTS FOR ALL MASTER'S DEGREES

MASTER OF EDUCATION

Master of Education (Broad Area Approach)

1. 30 semester hours, of which 12 may be taken in a department of the college other than education.

2. Satisfactory completion of the general requirements.

School Administration

1. 16 semester hours of professional study as required for the Provisional Elementary, Provisional Secondary, Provisional General, or Standard General Principal's Credential in Washington.

2. Laboratory and internship experiences as required for one of the above credentials. Forty clock hours of practice principalship in a public school during regular school time is required.

3. Satisfactory completion of the general requirements.

Educational Guidance

1. Six to nine hours of work in Psychology to be chosen from the following courses:

Psychology of Adjustment
Measurements in Psychology
Psychology of Personality
Educational Psychology

2. All guidance candidates are required to take one course in one of the following areas:

Statistics
Tests and Measurements
Measurements in Psychology

3. Education: Required course—**Advanced Techniques of Counseling and Guidance.** Prerequisite: **Principles of Guidance,** or satisfactory evidence of its equivalency through experience.

4. Sociology: Required course—**The Family**

5. Anthropology: Required course: **Cultural Anthropology**

6. Six semester hours of supervised child-guidance experience.

7. Satisfactory completion of the general requirements.

MASTER OF ARTS IN TEACHING

1. 9 to 12 semester hours in the major subject area.

2. 6 to 9 semester hours in other liberal arts courses.

3. 3 hours of electives.

4. Satisfactory completion of the general requirements.

MASTER OF ARTS IN RELIGION

1. Each candidate shall elect an area of concentration, either Psychology and Religion, Philosophy and Religion, or Christian Education and Religion.

2. 16 semester hours including thesis must be taken in the area of concentration.

3. The course requirements for each area will be determined by the Chairman of the Religion Department.

4. Satisfactory completion of the general requirements.

Professional Studies

Whitworth College provides training for a large number of vocations. However, there are several professional areas which deserve special attention because of the wide interest in them. The following statements contain descriptions of the pre-professional programs which are of major concern.

DENTISTRY

Students who plan to enter the dental profession usually follow the general program outlined for pre-medical students. It is possible to be admitted to some schools of dentistry with only two years of preparation, but it is advisable to take four years. Pre-dental students should follow the curricula of the pre-medical studies with the exception of quantitative chemistry and a language.

ENGINEERING

The successful practice of engineering requires adequate training in the humanities and social sciences. More and more individuals with engineering training are filling responsible positions in our increasingly complex economy. At the present time over fifty percent of top-management positions are filled by such individuals.

The pre-professional basic studies for all first year engineering students are the same regardless of the specialized branch of engineering in which a student expects to major in future years. During the second year specialization in engineering education begins. At the end of two years some engineering students may wish to change to a science major, for example, chemistry, physics, or mathematics. They can do this without lost time. During the third year engineering students will be pursuing the Three-Two Plan.

Whitworth College participates in the Three-Two Engineering Plan approved by the Board of Christian Education of the Presbyterian Church, U.S.A. Following the three years of basic study at Whitworth College, the student transfers to the engineering college of his choice and graduates in two years. At the end of the five-year combined studies he receives a Bachelor of Arts Degree from Whitworth and a Bachelor of Science Degree in his major engineering field from the cooperating college or university.

At the present time, the Three-Two Plan is available in cooperation with Lafayette, and Washington State University although students wishing to transfer to other engineering schools will find that the Whitworth program is designed to coordinate with standard engineering curricula. Additional information regarding requirements, courses, and possibilities of a Three-Two Plan with other colleges and universities may be secured by writing the Engineering Department or Admissions Office.

In the Three-Two plan the following courses are recommended:

First Year—All Engineering Students

Humanities and Social Sciences	Hours
Bible	2
English 101, Composition	4
Physical Education	2

Engineering and Basic Sciences	
Engr. 101, Problems and Orientation	2
Engr. 111, Engineering Graphics I	2
Engr. 112, Engineering Graphics II	2
Engr. 121, Fundamentals of Surveying	2
Chem. 121, 122, Theories of Chemistry	6
Chem. 127, Qual. Anal. Laboratory	1
Math. 113, Plane Trigonometry	2
Math. 115, College Algebra	3
Math. 116, Anal. Geom. and Calc.	5
	33

Second Year	CE-ME EE & others	Ch E
Humanities and Social Studies	Hours	Hours
Bible	2	2
Speech 110, Fundamentals	2	2
Physical Education	2	2
Engineering and Basic Sciences		
Engr. 211, 212, Mechanics of Solids	10	
Engr. 245, Introduction to Computer	8	8
Programming	1	1
Phys. 215, 216, General	8	8
Math. 255, Anal. Geom. and Calc.	5	5
Math. 262, Diff. Equations	3	3
Chem. 241, 242, Organic		6
Chem. 247, 248, Organic Lab		4
	33	33

Third Year	CE-ME & others	EE	Ch E
Humanities and Social Science	Hours	Hours	Hours
Bible	2	2	2
Econ. 101, 102, Principles	6	6	6
Electives	14	12	6
Engineering and Basic Sciences			
Engr. 211, 212, Mechanics of Solids			10
	CE-ME & others	EE	Ch E
Engr. 301, Fluid Mechanics	3		
Engr. 352, Thermodynamics	3	3	3
Phys 357, Elect. and Magnetism		3	
Phys. 358, Elect. Measurements		2	
Chem. 351, Physical Chem.			3
Chem. 357, 358, Phys. Chem. Lab			4
Math. Elect.	6	6	
	34	34	34

LAW

In recent years, law schools have been stressing a broad liberal arts background as furnishing the best possible basis on which to build a professional career. In general, neither the American Bar Association nor leading law schools require any particular pre-legal curriculum. They do, however, stress the ability to communicate properly through the development of skill in reading, writing, speaking, and logic.

If a student has decided on a particular law school, he may select those courses which will meet a given school's requirements. If this decision has not been made, the college advises him to major in some field, such as history or political science. Attention is also given to the various aspects of business. Most law schools now require the baccaleaurate degree for admission.

A student who, during his three years in the pre-law curriculum, meets all the institutional requirements for graduation except completion of the law degree and the fourth year of residence may meet the requirements for a B.A. in the first year at the law school.

MEDICAL RECORDS LIBRARIANSHIP

Students desiring a degree program leading to employment as a medical records librarian may take three years at Whitworth and one year in an approved hospital having an accredited medical records course. Upon completion of the total program, the student will receive a B. A. degree with a major administered by the Business Department and a minor in biology.

Curriculum for Medical Record Science

First Year—	
English 101	4 Hours
Speech 110	2
Language 101, 102 (French, German, or Spanish)	8
Biology 111, 112	8
Psychology 101	3
Bible	2
Physical Education Activity	2
Sociology 111	3
	32

Second Year—	
Biology 120, 121, 200	10
Language 201, 202	6
Business 236 and 240	6
Economics 203	3
Bible	2
Physical Education Activity	2
Electives	3
	32

Third Year—

Business 305, 371, 373, Electives	13
Psychology 324 or 327 or 436	3
Bible	2
Electives	14
	32

Fourth Year—

Accredited medical records course at an approved hospital. A maximum of 30 semester hours will be granted on the degree.

Proficiency in typing must be demonstrated either by course work or by special examination. If proficiency has been gained in a foreign language, electives in the humanities may be substituted.

MEDICAL TECHNOLOGY

Students may become qualified in three years to enter a School of Technology and after spending one year in a technological school they will be eligible to take examinations for becoming a registered Medical Technologist. Whitworth has affiliation with the Medical Technology schools of the Deaconess, St. Luke's and Sacred Heart Hospitals whereby if a student spends three years at Whitworth before entering the school of technology he may meet the requirements for the certificate issued by the Registry of Medical Technologists and also receive a B.S. degree.

MEDICINE

Curricula are offered to include courses that will satisfy the entrance requirements of most professional schools in medicine, osteopathy, dentistry, and related fields. In certain of these schools some students are accepted with but three years of preparation but the majority will have four and a bachelor's degree before entrance. A student may meet the requirements for graduation by completing three years in residence and receiving credit for his first year of studies at the medical school.

Pre-medical students have considerable latitude in the selection of a major. Biology and chemistry are frequently chosen. Suggested curricula for pre-medical students are given with the offerings of those departments. A number of medical schools recommend a reading knowledge of one modern language. Most schools emphasize a maximum of electives in areas other than science.

MINISTRY

Students coming to Whitworth who are expecting to proceed to seminary after graduation should generally seek to obtain as thorough a liberal arts education as possible. The American Association of Theological Schools recommends that three-fourths of the student's college work be taken in the following areas:

English, including literature, speech, and related studies, at least 6 semesters.

History, at least 3 semesters.

Philosophy, including history, content, and method of philosophy, at least 3 semesters.

Natural Sciences, preferably physics, chemistry, or biology, at least 2 semesters.

Social Sciences, including psychology, sociology, economics, political science, and education, at least 6 semesters.

Foreign Languages, one or more of the following: Greek, German, French. Those who anticipate post-seminary studies are urged to undertake these disciplines as early as possible. At least 4 semesters.

Religion, as thorough a knowledge of the content of the Bible as possible is recommended together with an introduction to the major religious traditions of man. At least 3 semesters.

At Whitworth each student must choose one area of concentration. This major may be chosen at the end of the Freshman year and will usually be in the areas of English, history, philosophy, or one of the social sciences. He must also select a minor area.

NURSING

Whitworth College, in cooperation with approved hospital schools of nursing, offers three programs in nursing.

Program One

The College offers a pre-nursing program for students who wish to transfer to a collegiate school of nursing at the end of one year of instruction.

Program Two

High school graduates who qualify may enter Deaconess Hospital School of Nursing. Whitworth offers the following first-year courses in that diploma program:

First Semester—

Biology 200, Microbiology	4 Hours
Biology 120, Human Anatomy	3
Biology 118, Human Anatomy Laboratory	1
Psychology 101, General	3
Chemistry 103, Introductory Organic Chemistry	2
	13

Second Semester—

Sociology 111, Introduction	3
Biology, 121, Human Physiology	3
Biology 119, Human Physiology Laboratory	1
Chemistry 104, Introductory General Chemistry	2
Home Economics 108, Nutrition	2
Religion, elective	2
	13

In addition to the 13 hours which these students take at Whitworth each semester, they are enrolled in Nursing 101, 102, Fundamentals of Nursing, at the Hospital.

Program Three

Upon graduation from an approved hospital school of nursing, students may enter a degree program at Whitworth College with 30 semester hours advanced standing for their diploma program, which will constitute a minor. The amount of credit granted to transfer students coming to Whitworth from college-affiliated programs will be evaluated by the Registrar. Upon the completion of a college major (not nursing) and the completion of all general requirements they will be entitled to receive either an A.B. or a B.S. degree.

Whitworth College will grant full academic credit for all of the Deaconess School of Nursing courses that have been taught by Whitworth instructors; thus 26 hours described in the Deaconess diploma program may be added to the 30 hours allowed for hospital school courses.

SOCIAL WELFARE

The following program has been developed in consultation with a committee of practitioners representing the Inland Empire Chapter of the National Association of Social Workers, and is endorsed by this chapter. It is recommended that students planning to enter the field of social work major in one of the two fields of psychology and sociology, and minor in the other. In every case the student should plan his entire program in such a way as to meet the prerequisites of the graduate school of social work which he plans to enter. The courses listed below will meet the specific entrance requirements of schools of social work.

Sociology 111, Introduction
Sociology 112, Social Problems
Sociology 331, Cultural Anthropology
Sociology 305, Statistics
Sociology 371, Introduction to Social Welfare
Sociology 372, Field Observation
Psychology 101, General
Psychology 210, Developmental
Psychology 324, Psychology of Adjustment
Psychology 359, Abnormal Psychology
Psychology 468, Theory and Principles of Counseling

Other courses that will help in providing background for social work are Sociology 241, Social Psychology; Economics 101 and 102, Principles of Economics; and Political Science 101 and 102, American Government.

TEACHING

The college has a complete program of preparation for students interested in teaching in public or private elementary and secondary schools. Credits from Whitworth College are accepted in all fifty states towards teacher certification and by university graduate schools for the preparation of college teachers.

An overall grade point average of 2.5 is necessary for registration in Education 490, and also at least a 2.5 average in each teaching field and in courses in professional education. The Teacher Certification Candidacy Committee provides a program of guidance to students desiring certification for public school teaching and approves all candidates. Specific Laboratory Experiences are required to all students desiring a teaching certificate.

Students taking Directed Teaching from Whitworth College who hold a degree from another institution, must complete 9 hours in professional education at Whitworth before being permitted to register for Directed Teaching. Such students must complete a total of 15 hours in residence before being certified by Whitworth.

Students presenting credits toward certification which are more than five years old, will be required to take 6 additional semester hours in the major teaching field.

Certification for Public School Teaching in Washington

Degree: A bachelor's degree from an accredited college or university.

Certificates: 1. Provisional Certificate
2. Standard Certificate

REQUIREMENTS FOR THE PROVISIONAL CERTIFICATE

Recommendation from chairman of major department.

Recommendation from teacher certification candidacy committee.

Reasonable prospect of placement as reflected by two factors:

(a) compilation of quality and placement credentials

(b) teacher supply and demand statistics.

Completion of the following college requirements:

1. All Bachelor's degree requirements of the college.
2. Forty-two hours of content commonly taught in the public schools which may be distributed according to any one of the following three patterns:
   (1) 42 hours including a major, in the one subject.
   (2) A major in one subject and the balance to 42 hours in related courses as stipulated by the major department.
   (3) A major in one subject, and not less than 16 hours in a second teaching subject or teaching field.

Subject content teaching fields:

a. Health Education
   Physical Education and Recreation
b. English Language Arts
   Speech, Drama, Literature, Library, Journalism

c. Foreign Language Arts
French, German, Spanish
d. Social Sciences
Economics (not including Business Administration), Geography, History, Political Science, Sociology
e. Science
Biological and Physical Sciences
f. Mathematics
g. Fine and Applied Arts†
Art, Business Education, Home Economics, Music

3. A minor in Education and professional requirements as follows:

Education 210, Human Growth and Development	3 hours
Education 303, Curricular Materials and Methods	3 hours
Education 306, Theories of Learning	3 hours
Professional Sequence for Elementary teachers: as follows:	8 hours
Required of all:	
Education 420, Elementary Reading	2 hours
Education 421, Arithmetic-Elementary School	2 hours
or	
Education 357, New Concepts in Arithmetic	3 hours
Two to be chosen from these three:	
Education 423, Social Studies—Elementary School	2 hours
Education 424, General Science—Elementary and Junior High	2 hours
Education 426, Language Arts in the Elementary School	2 hours
Professional Sequence for Secondary teachers: as follows:	8 hours
Required of all:	
Education 332, Audio-Visual Aids	2 hours
Education 401, Principles of Guidance	2 hours
Education 412, Tests and Measurements	2 hours
or	
Education 305, Statistics	2 hours
One to be chosen from these two:	
Education 425, Teaching in the Junior High School	2 hours
or	
A methods course in the subject you will teach	
Education 490 E, J, and S, Directed Teaching and Observation	8 hours
Laboratory Experiences, including two weeks of classroom observation, one of which should be at the elementary level and the other at either the junior or senior high level. It is expected that one week of observation will be completed prior to the beginning of the junior year and that it will occur at the time public schools open. The second week would be completed prior to the beginning of the senior year and should also be early in September.	No credit

4. Miscellaneous requirements. The Chairman of the Education Department may, at his discretion, prescribe any two of these:

Music 331, Elementary Classroom Music*	3 hours
Art 353, Elementary Art Teaching Methods*	2 hours
History 486, History and Government of the Pacific Northwest	2 hours
Physical Education 345, Methods of Teaching Elementary P.E.*	2 hours

It is recommended that students complete the professional and miscellaneous requirements in this sequence:

Sophomore Year:

Education 210; Music 331*; laboratory experiences.

Junior Year:

Education 303, 306, Art 353; Physical Education 345*; Laboratory Experiences.

Senior Year:

Eight-week professional block and Education 490.

†Candidates seeking certification in a subject in the Fine and Applied Arts field should not use courses from other subjects within the field as related courses under Pattern (2).

*Required for Candidates for Elementary Level Teaching Certificate.

REQUIREMENTS FOR THE STANDARD GENERAL CERTIFICATE EXPERIENCE:

The candidate must teach at least two years during the life of the Provisional Certificate. The State renews the Provisional Certificate at the end of three years for an additional three years upon completion of at least eight semester hours of credit toward the Standard Certificate.

1. A plan for the completion of the fifth college year must be filed with the County Superintendent.

   Twenty of the thirty hours may be completed prior to the first year of teaching, subject to institutional approval.

Fifth Year of Teacher Education:

Thirty semester hours according to a plan made in consultation between the candidate for the Certificate, the College, and a supervisor of the local school in which the candidate teaches.

1. One-half of these courses must be of upper division or graduate level.
2. Twenty of the thirty hours may be completed prior to the first year of teaching.
3. A maximum of eight hours of extension or correspondence study is acceptable.
4. Teachers may complete these requirements in summer school and night school.
5. At least fifteen semester hours must be completed in the recommending institution.

SCHOOL OF AMERICAN STUDIES

This program is designed to present the student an opportunity to make a special study of Americana. This study includes our concepts of democracy, personal liberty, and free enterprise. It is the purpose of this program to present a plan of study that will demonstrate the values of our heritage as a free people in a basically free society.

Four options of study are offered: American History, Political Science, Economics, American Humanities.

Basic majors and minors will be required as well as the general graduation requirements of the college. If desired, the student may meet both major and minor requirements in the School of American Studies.

This program will graduate students who have the traditional majors and minors, yet these will have been taken within the framework of the School of American Studies, and under its direction. This can lead to the profession of teaching, law, business, the ministry, the foreign service, and will meet the requirements of the liberal arts program. A limited number of scholarships are available in American Studies.

Detailed information may be secured by writing to the Director of American Studies, Whitworth College.

RESERVE OFFICERS' TRAINING CORPS

Whitworth College in cooperation with Gonzaga University offers male students opportunities to participate in the Reserve Officers' Training Corps program. The ROTC program is specifically designed to give college men training and experience in the art of organizing, motivating and leading others. It includes instruction to develop self-discipline, physical stamina and bearing — qualifications that are an important part of leadership and that contribute to success in any kind of career. This program represents an endeavor to cooperate with the Government in its preparation for national defense.

Completion of both basic and advanced courses in addition to graduation from Whitworth College may lead to a commission as a Second Lieutenant in the Army of the United States. (See pages 77-78.)

Curricular Plan

The instructional departments of Whitworth College are arranged within three divisions, with each division including a related group of subjects. These divisions are:

DIVISION I, HUMANITIES
- Art
- English
- Greek
- Library Science
- Modern Languages
- Music
- Philosophy
- Religion
- Speech and Drama

DIVISION II, NATURAL SCIENCES
- Biology
- Chemistry
- Engineering
- Geology
- Home Economics
- Mathematics
- Physical Education
- Physics

DIVISION III, SOCIAL SCIENCES
- Business and Economics
- Business Education
- History
- Journalism
- Political Science
- Psychology
- Sociology

INTER-DISCIPLINARY AREAS
- American Studies
- Education
- Graduate Study

In the following pages the courses of instruction are described under the titles of the respective departments in which they are offered within the three divisions of the curriculum. Statement of departmental purposes and major and minor requirements will be found at the beginning of each department. The course offerings of Whitworth College are expanded through a system of alternation. When a course is given in alternate years, a distinction is made at the end of the course description.

Courses numbered from 100 through 299 are for freshmen and sophomores; those numbered from 300 through 499 are for juniors and seniors.

Humanities

ART

ENGLISH

GREEK

LIBRARY SCIENCE

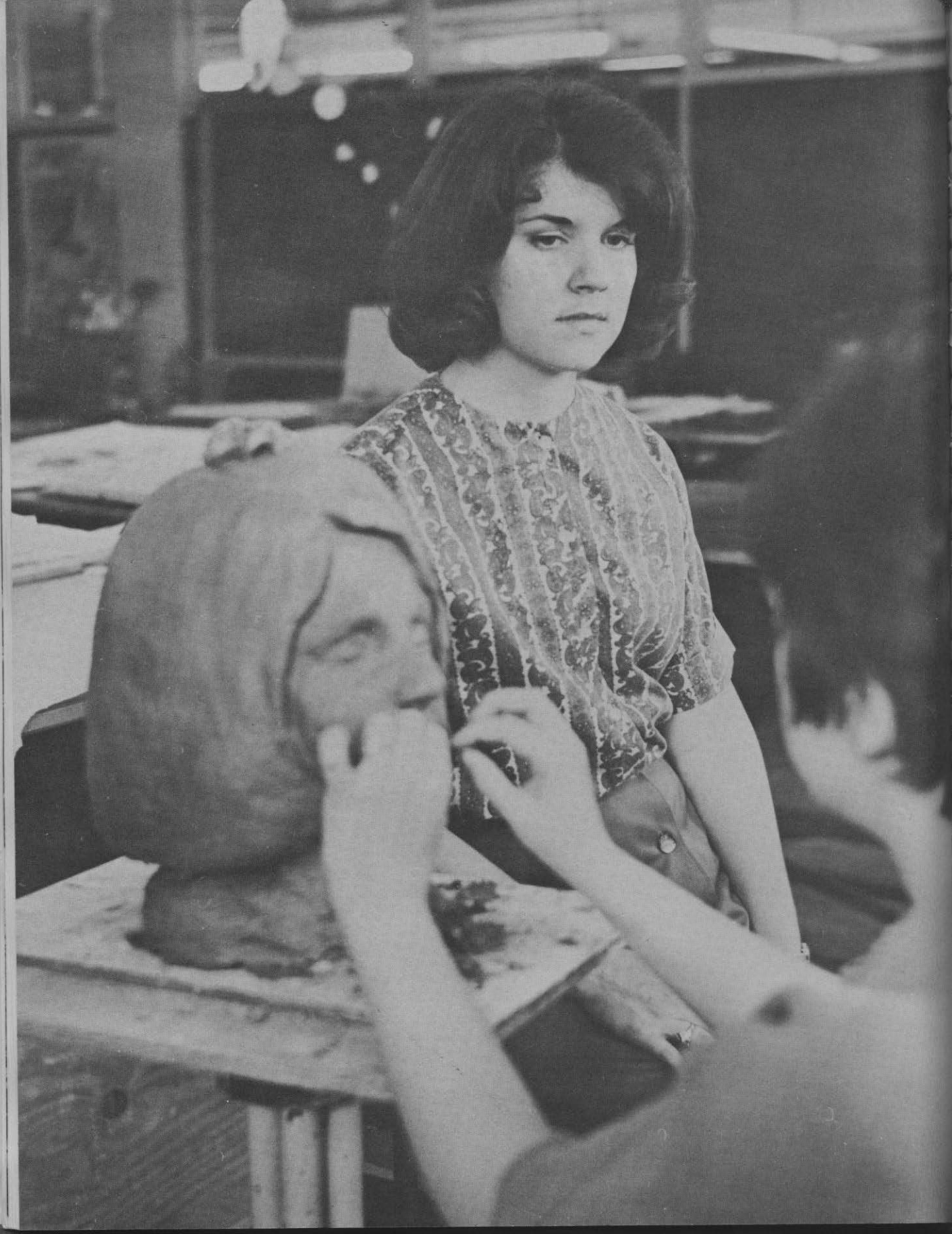
MODERN LANGUAGES

MUSIC

PHILOSOPHY

RELIGION

SPEECH AND DRAMA



ART

Koehler, Haas, Larson

The Art Curriculum is organized to give a basic knowledge of the principles of Art and their practical application to expressions in various art media. Since students can develop their talents best through practice and work under competent guidance, most of the work is done directly in the studio. Art educators of today have an important responsibility. They must prepare and guide students into a place in our highly competitive social and economic system. As in any worthwhile profession, success is in proportion to the investment of time and effort on the part of the student. Graduation from an art course cannot guarantee a job. All any course can do is to point the way and aid and guide the student in choosing the profession into which his particular abilities seem to lead. That many former Whitworth Art students now hold responsible jobs in the art field is a credit to the patience, diligence and encouragement shown by the art staff, as well as to the students' own abilities. This we believe to be an honest evaluation of any pre-professional course offered anywhere.

The art faculty is equally interested in developing intelligent Art Consumers. Not all of our students are primarily interested in art as a profession, but rather as an avocation. Many students are using their art training in various youth work programs, in rehabilitation work, in home economics, in teaching, day camps, church work, physiotherapy, and many other related fields. The art curriculum at Whitworth College is organized to be the greatest help to these people.

MAJOR REQUIREMENTS

The following courses are required for a major in Art:

	Hours
Art Appreciation	6
Composition and Visual Theory	4
Drawing	4
*Electives	22
	36

To major in PAINTING: Basic art courses listed above with 12 of the 22 electives in painting.

To major in APPLIED ARTS AND CRAFTS: Basic courses listed above with 16 of the 22 electives in Crafts, Ceramics, Sculpture, or Jewelry.

REQUIREMENTS FOR TEACHER EDUCATION IN FINE ARTS

In cooperation with the Education Department the following basic courses are recommended:

	Hours
Art Appreciation	6
Ceramics	2
Composition and Visual Theory	4
Crafts	2
Drawing	4
Figure Drawing	2
Graphics	2
Lettering	2
Painting	2
Sculpture	2
Seminar	3
*Electives	11
	42

*Those who plan to teach or supervise Elementary or Junior High Art shall take Art 353, Elementary Art Teaching Methods.

**Up to 5 hours under electives may be taken in allied fields such as:

	Hours
Music 106, Music Appreciation	3
Philosophy 363, Asthetics	3
P. E. 116, Creative Rhythms (women)	1

MINOR REQUIREMENTS

The following courses are required for a minor in art:

	Hours
Art Appreciation	6
Design	2
Drawing	2
Electives	6
	16

The following list of courses are offered by the art department. When there is more than one class listed, the classes should be taken in sequence as indicated.

DRAWING

The first part of the course in drawing emphasizes basic perspective, the function of light in the expression of form, and the development of rendering techniques and drawing skills.

The second part of the drawing course emphasizes the function of color in the development of form and basic skills in various art media.

101 DRAWING I — **2 hours first semester**

102 DRAWING II — **2 hours second semester**

DESIGN

The first class in design is a basic study of the principles of design and various theories of spacial organization as well as the function of color in all areas of art.

The second class in design is primarily concerned with the principles of design and their application to three dimensional art form.

107 DESIGN I — **2 hours first semester**

108 DESIGN II — **2 hours second semester**

LETTERING

The first class in lettering applies the principles to good letter form and alphabet types as well as the techniques involved in hand lettering. The second class applies the skills developed previously to poster design and various advertising media.

125 LETTERING I — **2 hours first semester**

225 LETTERING II — **2 hours second semester**

FIGURE DRAWING

The course in figure drawing is designed to develop skill in rapid drawing using the figure as the content of the drawing. Working with models the student develops ability to observe and to express in various media the human figure in many aspects. Subsequent classes develop further the student's abilities with emphasis on portrait as well as full figure drawing.

201 FIGURE DRAWING I	**2 hours each semester**
301 FIGURE DRAWING II	**2 hours each semester**
401 FIGURE DRAWING III	**2 hours each semester**

PAINTING

The course in painting is so designed that the student learns first of all the basic skills and techniques of painting as well as basic composition of subject material within the picture area. As the student develops his technical ability he concentrates more on structure and form as content in his painting and studies more advanced methods of painting using various art media. Finally the student is encouraged to develop his own style of painting and method of self expression. He is encouraged to work on his own a considerable part of the time with several periods of critique with the instructor.

221, 222 PAINTING I, II	**1-4 hours each semester**
321, 322 PAINTING III, IV	**1-4 hours each semester**
421, 422 PAINTING V, VI	**1-4-hours each semester**
451, 452 PAINTING VII, VIII	**1-4 hours each semester**

GRAPHICS

The course in graphics applies the principles of design and special organization to the specific field of print making. This involves the use of various media such as lithography, block printing, etching, engraving, silk screen and many more.

235 GRAPHICS I	**1-4 hours each semester**
335 GRAPHICS II	**1-4 hours each semester**
435 GRAPHICS III	**1-4 hours each semester**

CRAFTS

These classes are oriented to apply good design principles to various craft media. This course is open to non art majors to encourage the development of an avocation. The students work in many mediae such as wood, leather, metal, etc.

236 CRAFTS I	**1-4 hours first semester**
336 CRAFTS II	**1-4 hours first semester**
436 CRAFTS III	**1-4 hours first semester**

JEWELRY

This course is concerned with developing skills in the use of metal and stone cutting in the making of jewelry. Emphasis is placed on the function as well as the design of the pieces.

264 JEWELRY I	**1-4 hours second semester**
364 JEWELRY II	**1-4 hours second semester**
464 JEWELRY III	**1-4 hours second secester**

CERAMICS

These classes provide the student with the opportunity to develop skills in ceramic art. Beginning with simple forms the student advances to more complicated ceramic pieces. All of the steps in forming ceramic are learned from slab structures through coil methods and throwing on the wheel together with various glazing techniques. As the student progresses more complicated features such as casting and mold making are learned.

274 CERAMICS I	**1-4 hours first semester**
374 CERAMICS II	**1-4 hours first semester**
474 CERAMICS III	**1-4 hours first semester**

SCULPTURE

This course employs the principles of design to three dimensional structures. There are many media that are used in sculpture and the student is urged to experiment with many such as wood, clays of various types, wire and metal as well as stone. The student is encouraged to experiment widely after he has developed some skills in various media and seek new creative ways to express ideas in form.

284 SCULPTURE I	**1-4 hours second semester**
384 SCULPTURE II	**1-4 hours second semester**
484 SCULPTURE III	**1-4 hours second semester**

ART APPRECIATION

The Art appreciation courses are designed to give the student a good background for the understanding of the cultural development of many civilizations with a special emphasis on the development of Western Art.

255 CONTEMPORARY ART APPRECIATION **3 hours**

Begins with the last of the 19th century and develops the styles in art, architecture, and sculpture that are current today.

260 NATIVE ARTS OF THE AMERICAS **3 hours**

A survey of the arts and crafts of North and South America including the Inca and Mayan cultures as well as the Indian arts of Mexico, Southwestern U. S. and the northern Indians of Alaska.

355 WORLD HISTORY OF ART **3 hours**

Begins with the earliest cultures through classic art and art of the Renaissance up to the 19th century.

353 ELEMENTARY ART TEACHING METHODS **2 hours each semester**

This course is designed to help the prospective teacher to find methods of organizing materials and effective ways of presenting various types of learning experiences using art media at the elementary school level. This course meets the state requirement for certification.

SEMINARS

The seminar courses are organized to give the student opportunity for individual study in various art forms and present his material for group discussion and evaluation.

The seminar class is a group study plan with discussion concerning contemporary art forms.

The Research and individual conference program is an independent study undertaken with consultation with one of the instructors. This may take the form of a readings research or research in the use of some art media.

The Art Study Tour is a program undertaken usually in the form of Art Appreciation in conjunction with Whitworth College sponsored travel abroad.

300 ART STUDY TOUR	**1-3 hours**
440 SEMINAR	**1-3 hours**
485 INDIVIDUAL CONFERENCE AND RESEARCH	**1-3 hours**

ENGLISH

Richardson, Ebner, Oakland, Tegger, Whitten, Wurster

The program of this department is designed to aid the student as he develops competence in the use of the English language, a general knowledge of the major epochs in our cultural history, a thorough acquaintance with representative masterworks in each era, discrimination in the choice of reading, and a lasting enjoyment of good literature. Through this study of worthwhile thought artistically expressed, the student should increase his awareness of both personal and social values.

MAJOR REQUIREMENTS

Not later than the beginning of the junior year, the student and his major adviser plan a complete program of course work designed to aid the student in achieving the objectives stated above.

A major consists of 28 hours beyond 101. The student must complete two of the three full-year survey courses (231-232, 233-235, 241-242), 297, and 497. Fifteen of the 28 hours must be at the upper-division level. Twelve additional hours are required in either a foreign language or in such closely related fields as drama, journalism, library, and speech.

Those who plan to teach English in the public schools must take Speech 131, English 387, and either 426 or 487.

MINOR REQUIREMENTS

A minor consists of 16 hours beyond 101, 102. If the minor is to be used as a teaching field, it must include six hours in lower-division survey courses, 387, and either 426 or 487.

ENGLISH COURSES

101 ENGLISH COMPOSITION **4 hours either semester**

A review in the mechanics of the English language and more advanced work in reading, written composition, logic in expression, library research, and word study. The student will read extensively in various types of literature in order to increase his appreciation of good writing and to improve his own written expression.

101-A, 102-A ENGLISH COMPOSITION **3 hours each semester**

A review in the mechanics of the English language and more advanced work in reading, written composition, logic in expression, library research, and word study. During the second semester the student will read extensively in various types of literature in order to increase his appreciation of good writing and to improve his own written expression. Duplicates the material in English 101.

105, 106 ENGLISH FOR SPECIAL STUDENTS **3 hours each semester**

The purpose of this course is to help students who have learned first

a language other than English to become better acquainted with the English language, its vocabulary, idioms, and structure. Others may be assigned to this course upon recommendation of the English staff. This course takes the place of English 101 and 102. Meets four times each week.

202 READING IMPROVEMENT **2 hours either semester**
A course for any student who desires to improve his comprehension and increase his speed in reading. Vocabulary and supplementary reading is included. Not counted toward requirements for an English major.

231, 232 SURVEY OF ENGLISH LITERATURE **3 hours each semester**
Although it gives the student a comprehensive view of the whole field of English literature and acquaints him with literary types and movements, this course emphasizes the great writers.

233 LITERATURE OF THE WESTERN WORLD **3 hours first semester**
Masterpieces of classical Greek, Roman, and medieval literature and their relationship to our cultural heritage.

235 LITERATURE OF THE EASTERN WORLD **3 hours second semester**
Masterpieces of ancient Chinese, Hindu, Persian, and Buddhist, literature and their relationship to our cultural heritage. (Not offered 1967-68.)

241, 242 SURVEY OF AMERICAN LITERATURE **3 hours each semester**
A study of the growth of our literature from colonial origins to the present time.

245 CREATIVE WRITING **2 hours first semester**
Study and practice of techniques in writing verse, fiction, essay or drama according to interest and talents of those admitted. Intended for beginners as well as for those who wish to advance toward professional accomplishment in writing. Limited enrollment.

246 EXPOSITORY WRITING **2 hours second semester**
Language, structure, and techniques of formal analysis, definition, argumentation.

274 CHRISTIAN LITERATURE **2 hours second semester**
Selected works from the early Christian era to the present time, not including the Bible. The history of the Christian tradition in literature is studied and certain selections are read.

297 INTRODUCTION TO LITERARY CRITICISM **2 hours first semester**
Principles, theories, and practice of literary criticism. Required of all English majors. Should be taken in the sophomore year.

350 CHAUCER AND HIS TIME **3 hours first semester**
A study of representative works in medieval literature with special emphasis on the works of Chaucer.

351 ASIAN LITERATURE **3 hours second semester**
A critical study of representative works. (Not offered 1967-68.)

353 LITERATURE OF EXISTENTIALISM **3 hours**
See Philosophy 353 for description.

354 SHAKESPEARE **3 hours first semester**
A study of the life of Shakespeare, his sonnets, and his plays with special emphasis on the great tragedies.

355 MILTON **3 hours second-semester**
A study of Milton's life and times and important writings to understand his religious and social ideals, as well as to appreciate his major poetical works.

356 THE SEVENTEENTH CENTURY **3 hours second semester**
Principal English writers from the death of Elizabeth to the Restoration, excluding Milton.

357 THE AGE OF REASON **3 hours first semester**
Neo-classical English literature from Dryden to Johnson.

358 THE ROMANTIC ERA **3 hours second semester**
Development of English romanticism in the late eighteenth and early nineteenth centuries.

359 THE VICTORIAN AGE **3 hours first semester**
The principal British poetry and non-fiction prose of the period from 1830 to about 1890.

360 DEVELOPMENT OF THE ENGLISH NOVEL **3 hours first semester**
The novel from Richardson to Hardy.

362 THE BIBLE AS LITERATURE **2 hours second semester**
A study of the Bible in English translation with special emphasis upon the use of literary analysis as an approach to understanding and appreciation. Also offered as Religion 362.

365 TWENTIETH CENTURY EUROPEAN NOVEL **3 hours first semester**
A critical analysis of representative novels in terms of subject matter and technique. Emphasis upon Joyce, Mann, Proust, Camus, Lawrence.

368 THE AMERICAN RENAISSANCE **3 hours second semester**
The American mind from Emerson to Whitman.

369 THE GILDED AGE IN AMERICAN LITERATURE
3 hours second semester
A consideration of late nineteenth century American authors with emphasis on Twain and James.

370 TWENTIETH CENTURY AMERICAN NOVEL
3 hours second semester
A critical analysis of representative novels in terms of subject matter and technique with special emphasis on the novels written in the 1920's.

371 THE RENAISSANCE **3 hours first semester**
A study of the expressions of the Renaissance spirit in literature.

373 TWENTIETH-CENTURY POETRY **3 hours first semester**
Investigation of the ideas and methods of leading British and American poets from 1900 to the present.

386 DEVELOPMENT OF THE ENGLISH LANGUAGE
2 hours first semester
The growth of our language and its current form. A study of the changes in the spelling and meaning of words and in grammatical usage, with some insight into the laws governing such changes. Highly recommended for prospective teachers of English.

387 STRUCTURE OF THE ENGLISH LANGUAGE **2 hours second semester**
A descriptive analysis of the structure of present-day American English. Required for students who expect to teach but open to all students having completed English 101 and 102 or the equivalent.

400 READINGS AND RESEARCH **1-3 hours**

426 LANGUAGE ARTS IN THE ELEMENTARY SCHOOL **2 hours**
For course description see Education Department.

481 WRITING FOR PUBLICATION **3 hours**
For course description see Journalism Department.

487 SPECIAL METHODS OF TEACHING ENGLISH IN SECONDARY SCHOOLS **2 hours either semester**
Methods of teaching grammar, rhetoric and literature. Required for prospective teachers of English.

497 SENIOR SEMINAR **1 hour second semester**
Required of all seniors majoring in English.

ANCIENT LANGUAGE
GREEK

Yates

The student is provided with a thorough knowledge of the Grammar and Syntax of New Testament Greek which facilitates the reading of the New Testament in the original.

MINOR REQUIREMENTS

A minor in Greek consists of 16 hours.

201, 202 NEW TESTAMENT GREEK **4 hours each semester**
Grammar. Emphasis is on forms.

360 MARK **3 hours first semester**
Continuation of grammar.

361 GALATIANS **3 hours second semester**
Continuation of grammar.

498, 499 SELECTED READINGS **1 hour each semester**
Translation of various books of the New Testament.

LIBRARY SCIENCE*

Pearson, Henefer

Library Science courses are structured to acquaint the student with various phases of library work. The courses cover the area recommended by the State Department of Instruction as those which are needed to meet the state requirements. The state standards require 18 credit hours for preparation of librarians in schools with less than 400 enrollment, which can be filled by the following courses.

LIBRARY SCIENCE COURSES

300 CHILDREN'S LITERATURE **3 hours**
A general survey of children's books and reading preferences. Historical backgrounds and development; types of children's literature; levels of interest; criticism and evaluation; illustration; trends; book selection.

332 WORKSHOP: AUDIO VISUAL AIDS **2-3 hours**
For course description see Education 332.

350 SELECTION OF LIBRARY MATERIALS **2 hours**
Theories, principles, and practice of selecting books and other library materials. Gives familiarity with aids and sources of reliable information for selecting material, as well as methods of critical evaluation.

355 INTRODUCTION TO REFERENCE MATERIALS **3 hours**
Teaching students how to use general reference materials and aids. This includes detailed examination of reference books in subject fields.

470 CATALOGING AND CLASSIFICATION **3 hours**
An introductory course with special application to the high school library. The laboratory work provides for practical experience in cataloging a wide variety of books.

471 ORGANIZATION AND ADMINISTRATION **3 hours**
A course designed to give a thorough knowledge of the organization and administration of the school library. It includes a study of the function of the school library, cooperation with departments, business practice, budgets, records, charging, mending, accessioning, equipment, library staff, attendance and programming, circulation and publicity. Laboratory work in the college library.

475 DIRECTED FIELD WORK **1-3 hours**
Supervised work in libraries of the area.
*Courses offered primarily in summer sessions and evening classes.

MODERN LANGUAGES

Wadsworth, Alonso, Birnbaums, Sweat

The general aim of the study of modern foreign languages embraces both practical and cultural considerations. Modern languages are of immediate practical use to students preparing for careers in government service, foreign trade, teaching, missionary service, and for those interested in international relations and travel. Students majoring in other departments will find the ability to read foreign scientific and literary works an essential part of their professional preparation. Knowledge of the language and literature of foreign countries provides a direct approach to an understanding of the cultural values of other nations.

MAJOR AND MINOR REQUIREMENTS

A major or minor is offered in Spanish and in French, a minor in German. A major consists of 30 semester hours in one language, including courses 101-102. A minor consists of 18 hours in one language, including courses 101-102. A student who presents high school units in the same language and is thereby admitted to course 201 will complete a major of 26 hours or a minor of 14 hours. Sixteen hours are required for a teaching minor. Students who do not

plan to teach a language may select a major combining two languages. In every case the major must include at least 14 hours in courses numbered above 300 and the minor 4 hours. French 301, 302, 303, 304 or Spanish 301, 302, 303, 304 are required for a major in French or in Spanish. Courses in American, English, and World literatures are recommended for majors.

Prerequisites: Students with one year of high school language or one semester of college language enroll the second semester in course 102; students with two years of high school language or one year of college language enroll in course 201. Other special cases must take a placement test. Courses 101-202 or the equivalent are prerequisite for all upper division courses.

THE LANGUAGE LABORATORY: Provided to supplement classroom drill in pronunciation and conversation. Students work with recordings of class texts made by natives of various countries. The individual may correct his faults and check his progress by means of records and tapes and by taped reproductions of his own voice.

DEPARTMENTAL COURSE

489 METHODS AND MATERIALS FOR TEACHING MODERN FOREIGN LANGUAGES **3 hours**
Designed to meet needs of French, Spanish or German teachers in elementary, junior or senior high schools. Lectures, discussion, individual projects. Intensive oral-aural drill and practice in language laboratory techniques. Prereq. 12 hours of French, Spanish, or German, or equivalent.

FRENCH COURSES

101, 102 ELEMENTARY FRENCH **3-4 hours each semester**
Fundamentals of pronunciation and grammar, conversation, reading of graded texts. Laboratory work required.

201, 202 INTERMEDIATE FRENCH **3 hours each semester**
Grammar review, conversation, composition, reading of literary works and of technical writings in the field of the student's major interest. Laboratory work required.

301, 302 SURVEY OF FRENCH LITERATURE **3 hours each semester**
Historical development of French Literature, with readings and discussions of representative masterpieces from the Middle Ages to the 20th century. Required for major.

303, 304 ADVANCED FRENCH COMPOSITION AND CONVERSATION **3 hours each semester**
Based on texts dealing with contemporary life. Stresses acquisition of fluency in both spoken and written language. Laboratory work. Required for major.

305, 306 DIRECTED FRENCH READING **2-4 hours each semester**
Reading and reports of works selected in one field of special interest.

401 MODERN FRENCH NOVEL **2-4 hours**
The novel since Romanticism, including the schools of Realism, Naturalism, and the contemporary period.

402 MODERN FRENCH DRAMA **2-4 hours**
The drama since Romanticism, including the various schools of the 19th and 20th centuries.

490 RESEARCH **1-3 hours**

GERMAN COURSES

101, 102 ELEMENTARY GERMAN **3-4 hours each semester**
Fundamentals of pronunciation and grammar, conversation, reading of graded texts. Laboratory work required.

201, 202 INTERMEDIATE GERMAN **3 hours each semester**
Grammar review, conversation, composition, reading of literary works and of technical writings in the field of the student's major interest. Laboratory work required.

301, 302 SURVEY OF GERMAN LITERATURE **3 hours each semester**
Historical development of German Literature, with readings and discussion of representative masterpieces from the Middle Ages to the 20th century.

305, 306 DIRECTED GERMAN READING **2-4 hours each semester**
Reading and reports of works selected in one field of special interest: novel, short story, poetry, essay, drama.

490 RESEARCH **1-3 hours**

SPANISH COURSES

101, 102 ELEMENTARY SPANISH **3-4 hours each semester**
Fundamentals of pronunciation and grammar, conversation, reading of graded texts. Laboratory work required.

201, 202 INTERMEDIATE SPANISH **3 hours each semester**
Grammar review, conversation, composition, reading of literary works and of technical writings in the field of the student's major interest. Laboratory work required.

301, 302 SURVEY OF SPANISH LITERATURE **3 hours each semester**
Historical development of Spanish Literature, with readings and discussion of representative masterpieces from the Middle Ages to the 20th century. Required for major.

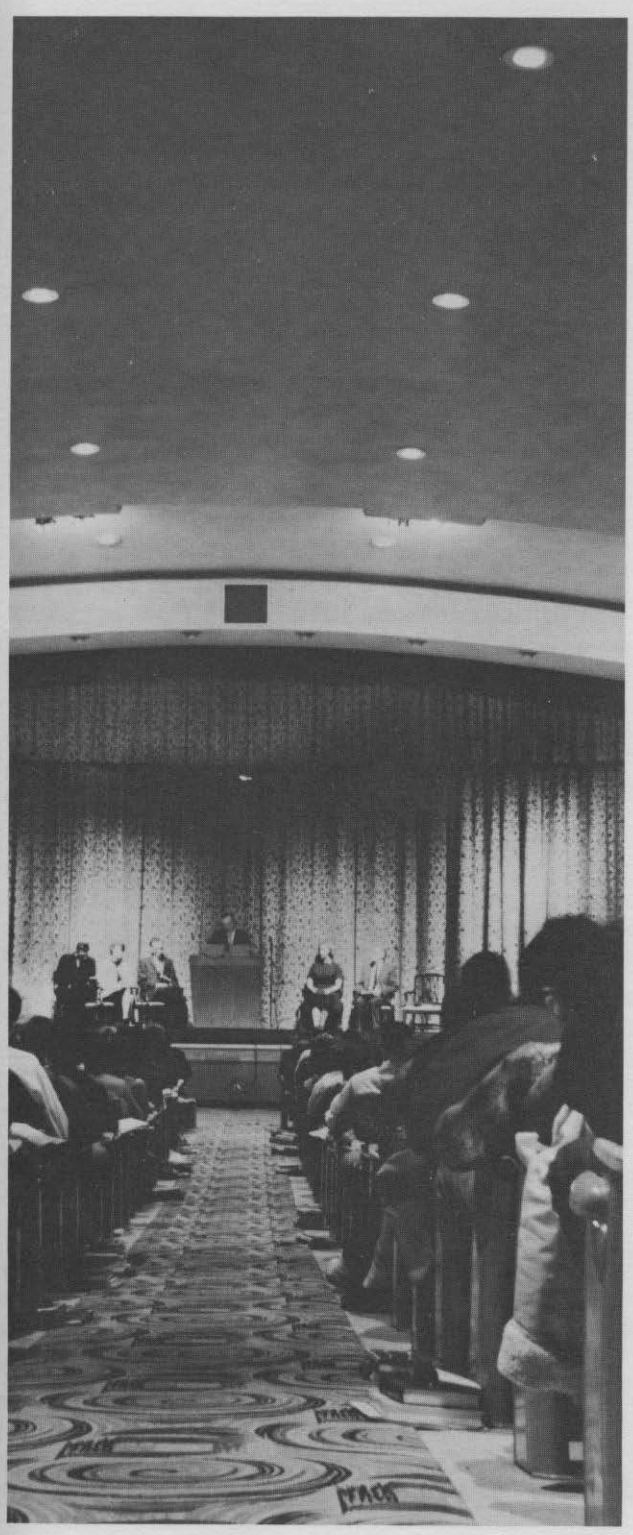
303, 304 ADVANCED SPANISH COMPOSITION AND CONVERSATION **3 hours each semester**
Based on texts dealing with contemporary life. Stresses acquisition of fluency in both spoken and written language. Laboratory work. Required for major.

305, 306 DIRECTED SPANISH READING **2-4 hours each semester**
Reading and reports of works selected in one field of special interest.

401 MODERN SPANISH NOVEL **2-4 hours**
The novel since Romanticism including the schools of Realism, Regionalism, Naturalism and the contemporary period.

402 MODERN SPANISH DRAMA **2-4 hours**
Spanish stage since Romanticism including the various schools of the 19th and 20th centuries.

403 SPANISH-AMERICAN LITERATURE **2-4 hours**
Readings from outstanding 19th and 20th century authors of the



Spanish-American countries. Discussion on historical and literary development.

404 MODERNIZATION IN SPANISH AMERICA **2-4 hours**
The origin and growth of the Modernista movement; Ruben Dario and his followers.

405 MODERN SPANISH LYRIC **2-4 hours**
Direct reading and analytical study of Spanish Lyric Poetry since the Modernista movement.

407, 408 STRUCTURE OF THE SPANISH LANGUAGE **2-3 hours each semester**
A morphological and syntactical study of the structure of Spanish today. Recommended for majors, teachers, and prospective teachers of Spanish.

490 RESEARCH **1-3 hours**

MUSIC

Johnson, Dahl, Huttenbach, McNaught, Martin, Ott, Ross, Tavener, Tubbs, Wardian

Provision is made for the best possible instruction and experience in all phases of music leading to active professional objectives in performance, teaching, and the ministry of church music. Attention is also given to those wishing to enrich and extend their general cultural background and to prepare for avocational contribution to the educational, religious, and cultural life of their community.

MAJOR REQUIREMENTS

Basic Curriculum	Hours
Applied music in one performing medium of which 4 must be pursued in private study, and 2 with upper division credit	6
Ensemble. Majors must be registered for an ensemble during each semester in residence. Majors in instrumental area must elect either wind ensemble or orchestra; those in choral, either chorus or choir	8
Theory, including Theory 122, 221, 222, 325, and one of the following: 420 or 428	13
History and Literature, 361, 362	6
Conducting, 357	2
	35

Piano proficiency requirement: approval of music faculty by audition.

Musical Acoustics (for description, see Physics Department) is recommended as a laboratory science for music majors.

Plus one of the following areas of emphasis:

1. Applied:
   a. An additional 6 hours of applied credit. A minimum of 8 hours of the required 12 must be in private study in the major performing medium (violin, piano, voice, etc), 4 of which must be upper division 6
   b. At least a joint junior recital and a full senior recital
   c. 2 hours of music (upper division) electives 2

   8

2. Music Education (in addition to the basic curriculum):
   a. Professional requirements in education, (see p. ??) of which the "professionalized minor" must include the following: 2 hours of Mus./Ed. 433
   b. Music Education 334 (waived for elementary majors) 2
   c. Music 236, 239, and 337 3
   d. Minimum of joint senior recital
   e. 2 hours from Physics 119, Art 353, Music 440, or Music 446 2

   7

3. Church Music:
   In addition to the basic curriculum, Mus. 377, 440, 472, plus 2 additional hours of applied music (other than major performing area—piano, organ, or voice) 8
   Minimum of joint senior recital.

MINOR REQUIREMENTS

Applied music in one performing medium, two hours of which may be class applied	4
Ensemble	4
Theory, including 122	3
Music History and Literature, 361, 362, or 363	4
Electives	1
	16

MUSIC COURSES GENERAL

106 MUSIC APPRECIATION — **3 hours each semester**

An introduction to the literature and aesthetic principles of music. Listening to and studying of works from the various styles and media with the aim of finer appreciation and future development.

357 CONDUCTING — **2 hours first semester**

Basic technique, including the use of the baton and the utilization of the left hand for expressive purposes, plus an introduction to score reading. Prerequisite: 122.

361, 362, 363 MUSIC HISTORY AND LITERATURE — **2 hours each semester**

A survey of the development of music with emphasis on the styles of the historical periods integrated with thorough examination of scores and recordings for the purpose of developing understanding music as an art.

Music 361: Music of Antiquity, the Middle Ages and the Renaissance. Offered Spring 1968 and alternate years.

Music 362: Music of the Baroque and Classic Eras. Offered Fall 1968 and alternate years.

Music. 363: Music of the Romantic, Modern, and Contemporary Eras. Offered Spring 1969 and alternate years.

485, 486 RESEARCH SEMINAR — **1-3 hours as arranged**

Students are provided the opportunity to do special research according to their interests with the guidance of the Chairman of the Department.

MUSIC THEORY COURSES

121 FUNDAMENTALS OF MUSIC — **2 hours first semester**

Notation, scale structure, intervals, simplest harmonic progressions, sight singing, elementary ear training. Open to non-music majors.

122 MUSIC THEORY — **3 hours second semester**

Fundamentals of counterpoint, a study of melody construction, voice leading, and treatment of dissonance in two, three, and four part counterpoint as related to the contrapuntal style of the 18th century. Prerequisite: 121, or permission.

221 MUSIC THEORY — **3 hours first semester**

Development of basic musicianship through ear training, sight singing, harmony, and analysis of four-part writing; triads, harmonic progression, modulations, and inverted chords, non-harmonic tones, cadences, dominant seventh chords, other chords serving dominant function, and a study of non-dominant harmony and other altered chords. Prerequisite: 122, or permission.

222 MUSIC THEORY — **3 hours second semester**

A continuation of 221. Prerequisite: 221.

325 INSTRUMENTATION AND SCORING — **2 hours first semester**

Tone, quality, range, transposition, and special characteristics of orchestral and band instruments. Basic scoring concepts and actual scoring for small instrumental ensembles. Prerequisite: 122.

420 MUSICAL ANALYSIS — **2 hours second semester**

Design and harmonic structure in music with reference to music styles, periods, and media. Prerequisite: 222. (Offered 1966-67 and alternate years.)

428 COMPOSITION — **2 hours second semester**

Principles of composition including harmonic, melodic, and rhythmic devices as well as contrapuntal techniques through practical application. Prerequisite: 222 and 325. (Offered 1967-68 and alternate years.)

MUSIC EDUCATION COURSES

236 WOODWIND INSTRUMENTS

Class Instruction and Methods — **1 hour second semester**

Elementary instruction and methods of teaching the woodwinds; course of study planning, and actual performance. (Offered 1966-67 and alternate years.)

239 BRASS AND PERCUSSION INSTRUMENTS

Class Instruction and Methods — **1 hour second semester**

Elementary instruction and methods of teaching the brass and percussion instruments; course of study planning; and actual performance. (Offered 1967-68 and alternate years.)

331 ELEMENTARY CLASSROOM MUSIC — **3 hours second semester**

Classroom procedures and material for music listening, creating, and participation in the elementary classroom. Recommended supporting electives: Music 121, 113A, or 106. For non-music teaching candidates.

337 STRING INSTRUMENTS

Class Instruction and Methods **1 hour first semester**

Elementary instruction and methods of teaching violin, viola, cello, bass; course of study planning; and actual performance on the instruments.

348 PIANO TECHNIQUES, PROBLEMS AND MATERIALS

2 hours first semester

Principles, materials, and problems of piano teaching based on W.S.M.T.A. requirements for state accreditation; observation and supervised teaching. (Offered 1967-68 and alternate years.)

433 MUSIC EDUCATION FOR THE ELEMENTARY SCHOOL

2 hours first semester

Materials and methods for directing and supervising musical activities and experiences in the first six grades. For the music major and minor.

434 SECONDARY SCHOOL MUSIC EDUCATION

2 hours second semester

Basic concepts of music education in the junior and senior high school. The general music class. An introduction to vocal and instrumental music and materials, rehearsal procedures, and administration of the music program.

440 CHORAL TECHNIQUES AND MATERIALS **2 hours second semester**

A study of choral techniques and problems, of choral conducting and rehearsal procedures, and of choral literature. Prerequisite: Music 357. (Offered 1967-68 and alternate years.)

446 INSTRUMENTAL TECHNIQUES AND MATERIALS

2 hours second semester

A study of instrumental techniques and problems, of instrumental conducting and rehearsal procedures, and of instrumental literature. Attention will be given to instrument repair and maintenance. Prerequisite: Music 357. (Offered 1966-67 and alternate years.)

CHURCH MUSIC COURSES

377 SURVEY OF HYMNOLOGY **2 hours first semester**

History of the hymn and hymn tune; types of hymns and their uses; analysis and interpretation of hymns; evaluation of standard hymnals. (Offered 1968-69 and alternate years.)

472 MUSIC AND WORSHIP **2 hours second semester**

The nature of worship and its significance; music as an aid to worship, order of worship, the role of the director, choir, and organist; evaluating church music. (Offered 1966-67 and alternate years.)

479 CHURCH MUSIC AND FIELD LABORATORY **2 hours**

Developing the music program of the church; the multiple choir program; responsibilities of the minister of music; practical experience directing a church choir.

APPLIED COURSES*

Private or class lessons in applied music are available to any student of Whitworth College, major or non-major.** (One half-hour lesson per week and an applied laboratory.) Inasmuch as this is private

instruction, a repeat of any level does not constitute a repetition of materials.

111, 112 — A, B, C, D, E, F, or G — Private Instruction 1 hour
211, 212 — A, B, C, D, E, F, or G — Private Instruction 1 hour
311, 312 — A, B, C, D, E, F, or G — Private Instruction 1 hour
411, 412 — A, B, C, D, E, F, or G — Private Instruction 1 hour

Upper division credit in applied courses — private instruction only upon approval of music faculty by audition.

113, 114 — A, B, or F — Class instruction in piano or voice.

Two classes per week. Enrollment limited to eight students per section ..... 1 hour

315, 316 — Junior Recital No credit
(See Major Requirements — Applied)

415, 416 — Senior Recital No credit
(See Major Requirements: 1. Applied; 2. Music Education)

*A—piano; B—voice; C—strings; D—woodwinds; E—brass; F—organ; G—percussion.

**Students in the department of music are required to report all public appearances in advance to their respective instructors.

ENSEMBLE MUSIC

A student must have had at least one year of lower division credit in ensemble, choral and instrumental respectively, in order to receive upper division credit.

181, 182, 381, 382 COLLEGE CHORUS 1 hour
Open to all students of Whitworth College. Performance of choral works of all styles and periods, including the great oratorios with orchestral accompaniment.

183, 184, 383, 384 COLLEGE CHOIR 1 hour
Open to all students by audition. Representative works of the great choral literature since the 16th century from a cappella to oratorios with full symphonic accompaniment prepared for church, school and concert presentations. Prerequisite: permission.

185, 186, 385, 386 MADRIGALS 1 hour
Open to all students by permission of instructor. Musical participation and presentation of quartets, trios, madrigals, groups, etc.

187, 188, 189, 190 ORATORIO SOCIETY No credit
A non-credit course that meets once a week with the College Choir, presenting two major choral works a year with full symphony orchestra.

191, 192, 391, 392 COLLEGE WIND ENSEMBLE 1 hour
Open to all students of Whitworth College. Literature performed will be predominantly original works for large wind ensembles. Prerequisite: permission.

193, 194, 393, 394 COLLEGE ORCHESTRA 1 hour
Open to all students of Whitworth College. Orchestral literature from all periods is studied and performed. The orchestra accompanies the college choral groups in the presentation of oratorios. Prerequisite: permission.

195, 196, 395, 396 INSTRUMENTAL CHAMBER MUSIC 1 hour
Open to all students of Whitworth College who are interested in performing in some form of small instrumental ensemble. Prerequisite: permission.

197, 198, 397, 398 STRING SINFONIETTA 1 hour
Comprised of the string section of the college orchestra. Representative works of string orchestra literature from all periods will be studied and performed.

PHILOSOPHY

Yates, Redmond

Philosophy attempts to answer questions pertaining to man's relation to God, the universe and his fellow man. By a critical examination of such efforts through the centuries, the aim of this department is to provide for the student a working philosophy of life.

MAJOR AND MINOR REQUIREMENTS

A major consists of 24 hours, a minor, 15. Required courses for a major are: 330, 331. Recommended courses for a minor: 330, 331.

Foreign language is compulsory for all majors. Work in the following departments is recommended: English, History, and Psychology.

PHILOSOPHY COURSES

201 INTRODUCTION TO PHILOSOPHY 3 hours each semester
An introduction to the various systems. This course is a prerequisite to all other course in philosophy, except 378.

330 HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY 3 hours first semester
From Thales to Ockam.

331 HISTORY OF MODERN PHILOSOPHY 3 hours second semester
From Descartes to Dewey. Philosophy 330 recommended.

350 PHILOSOPHY OF RELIGION 3 hours
A general survey of the field with emphasis in the Christian interpretation of life and the universe. Carries religion credit also.

351 ETHICS 3 hours
A comprehensive study of contemporary ethical problems.

353 LITERATURE OF EXISTENTIALISM 3 hours
A philosophical examination of existentialism as its principles are revealed in literature.

367 AMERICAN PHILOSOPHY 3 hours
A survey of American philosophical thought from colonial times to the present with special attention to Edwards, Peirce, Royce, James, Santayana and Dewey.

368 AESTHETICS 3 hours
A historical and analytical study of the concept of beauty with special attention to artistic experience.

370 CONTEMPORARY PHILOSOPHICAL PROBLEMS 3 hours
The study of philosophical problems as expressed in periodicals and

currently read literature. Application is made of recognized philosophical thought to the implied problems.

378 LOGIC **3 hours**
Formal deductive reasoning.

379 PHILOSOPHY OF HISTORY **3 hours**
The relation of man to historical movements.

430 SEMINAR IN THE PHILOSOPHY OF AUGUSTINE **2 hours**
An intensive study of the philosophical writings of Augustine, and his influence on the history of thought.

435 SEMINAR IN PLATO **2 hours**
An intensive study of Plato's major works, with special attention to his social, ethical, metaphysical and religious teachings.

440 SEMINAR IN MODERN BRITISH PHILOSOPHERS OF RELIGION **2 hours**
A study of the most significant contributions of modern British thinkers to the philosophy of religion, with special attention to William Temple and F. R. Tennant.

498, 499 DIRECTED READINGS AND RESEARCH **2-4 hours each**
Research by senior students. Credit given depends upon the quantity and quality of work done in the investigation of philosophical problems.

RELIGION

Dilworth, Redmond, Smith

The aim of the Department of Religion is to provide each student with an opportunity to achieve a general understanding of the Bible and of evangelical Protestant doctrine and to equip him for mature Christian living. The Department seeks, also, to provide those preliminary disciplines which will prepare the student for graduate training in the field of Church vocations.

Freshmen are expected to take Religion 102 or 112 during their first year. Religion 475 is recommended for all upper division students.

MAJOR REQUIREMENTS IN BIBLE LITERATURE

A major in Bible Literature consists of 30 semester hours including the 6 required for graduation. The accompanying minor may not be in Christian Education or Greek. Required courses are: Religion 102, 231, 232, 243, 249 or 356, 475, 489.

Additional requirements are Foreign Language, a semester of literature, Philosophy 201, and History, either courses 101, 102, and 372, or 353, 354, and 372.

MINOR REQUIREMENTS IN BIBLE LITERATURE

A minor in Bible Literature consists of 10 hours beyond graduation requirements, 5 hours of which may be in Groups II and III. Required courses are Religion 101, 231, 232, 243, and 475.

MAJOR REQUIREMENTS IN CHRISTIAN EDUCATION

A major in Christian Education offers training for professional or volunteer service in churches, schools and on the mission field. It, or its equivalent, is a prerequisite for candidacy for a Master of Arts degree in the field of Christian Education. The major consists of 22 semester hours beyond the 6 required for graduation, 15 of which must be in Group II. Required courses are:

Group I— Religion 231, 232, 243, and 475.

Group II — Religion 114, 116, 344, 371, 480, and 492 (for Presbyterians).

Group III — Religion 373.

In addition, one of the following options is required:

(1) Religious Drama: Speech 371, 372.
(2) Recreational Leadership: Recreational Leadership 355, and 315 or 356.
(3) Arts and Crafts: Art 236, and 101 or 221 or 274.

Other required courses:
English literature, 6 hours
Introduction to philosophy
Foreign language, 14 hours
Music 377
Phychology 210, 267, and 468.
The following courses are highly recommended:
Religion 377, Psychology or Religious Experience
Speech 131, Literary Interpretation
Education 332, Using Audio Visual Aids
Journalism 250, Communications and the Church Typing.

The required courses can also be applied on a minor when approved by the departments offering the courses.

MINOR REQUIREMENTS IN CHRISTIAN EDUCATION

A minor in Christian Education consists of 14 semester hours beyond the 6 required for graduation, 5 of which may be in Groups I and III.

Required courses are: Religion 114, 116, 371 and 480.

GROUP I, BIBLE LITERATURE

102 THE GOSPEL ACCORDING TO MARK **2 hours each semester**
An inductive study of the Gospel of Mark designed to introduce the student to method in Bible study.

112 INTRODUCTION TO THE NEW TESTAMENT **2 hours each semester**
A survey of the background and contents of the major books of the New Testament.

231 INTRODUCTION TO THE OLD TESTAMENT **2 hours each semester**
A survey of the historical background and contents of the major books of the Old Testament.

232 LIFE AND TEACHINGS OF JESUS **3 hours first semester**
A study of the Synoptic Gospels with emphasis on the timeless teachings of Jesus.

242 THE GOSPEL AND EPISTLES OF JOHN **2 hours second semester**
A study of the Johannine Literature and its relation to the other New Testament writings.

243 THE NEW TESTAMENT CHURCH **3 hours second semester**
A study of the development of the Christian Church based on the Acts and Epistles. (Offered 1967-68.)

249 EPISTLE TO THE HEBREWS **2 hours first semester**
A study of the New Testament book which is a basic bridge between the Old and New Testaments, emphasizing Christ's complete superiority to the provisions of the Old Testament. Prerequisite: 231. (Offered 1967-68.)

356 ROMANS **2 hours second semester**
An analytical study of the Epistle to the Romans and its logical presentation of basic Christian doctrines. (Offered 1967-68.)

362 THE BIBLE AS LITERATURE **2 hours first semester**
A study of the Bible in English translation with emphasis upon the use of literary analysis as an approach to understanding and appreciation. Also given as English 362.

366 JEREMIAH **2 hours second semester**
A detailed study of the book of Jeremiah, the prophet, his world, and his message for our day.

475 FUNDAMENTALS OF THE CHRISTIAN FAITH **3 hours second semester**
A systematic study of the basic doctrines of Protestant Christianity.

489 PROPHETS FOR TODAY **3 hours first semester**
A study of the Hebrew prophets with special emphasis on their message for our day.

490 RELIGION SEMINAR **Hours to be arranged**
A course in individual research with personal conferences with the instructor. Open to seniors and graduate students only.

GROUP II, CHRISTIAN EDUCATION

114 BASIC CONCEPTS AND METHODS OF CHRISTIAN EDUCATION **3 hours first semester**
A general survey of the field of Christian Education, its basic principles and objectives, designed to give the student insight into opportunities for leadership in the church's teaching ministry, and a systematic study of modern educational methods applied to the work of the church. Directed observation. (Offered 1967-68.)

116 CHRISTIAN EDUCATION OF CHILDREN **3 hours second semester**
A study of the spiritual growth of children from birth through the twelfth year. Supervised laboratory experience on the children's level to be arranged.

344 CHRISTIAN EDUCATION OF YOUTH AND ADULTS **3 hours first semester**
A study of the church educational program designed to meet the needs of adolescents and adults. Field work in a church, on the youth level.

371 ORGANIZATION AND ADMINISTRATION **3 hours second semester**
A course for those preparing to direct the educational program of the church. This includes a study of the qualifications and responsibilities of an Assistant in Christian Education in organization, administration, supervision, recruiting and training of personnel, curriculum evaluation and selection, and professional relationships.

480 FIELD PROBLEMS IN CHRISTIAN EDUCATION **3 hours first semester**
A seminar course dealing with the philosophy of Christian Education as a background for supervised field work which is required of each student. (Offered 1967-68.)

491 CHRISTIAN EDUCATION SEMINAR **Hours to be arranged**
A course in individual research with personal conferences with the instructor. Open to seniors and graduates.

492 PRESBYTERIAN CURRICULUM AND MATERIALS SEMINAR **2 hours second semester**
A course designed to provide training in the use of denominational curriculum and resource materials. (Offered 1966-67.)

GROUP III, RELATED COURSES IN RELIGION

350 PHILOSOPHY OF RELIGION **3 hours second semester**
See course description, Philosophy 350.

372 NON-CHRISTIAN RELIGIONS **2 hours first semester**
A study of the major non-Christian faiths of the world and their relationship to Christianity. (Offered 1967-68.)

373 SURVEY OF CHURCH HISTORY **2 hours first semester**
A survey of the historical development of the Christian Church from the time of Christ until the present, related to contemporary church life. (Offered 1966-67.)

377 PSYCHOLOGY OF RELIGIOUS EXPERIENCE **2 hours second semester**
Systematic study of religious experience from the psychological viewpoint. Experiences such as worship, conversion and prayer, are discussed in the light of psychological concepts and insights.

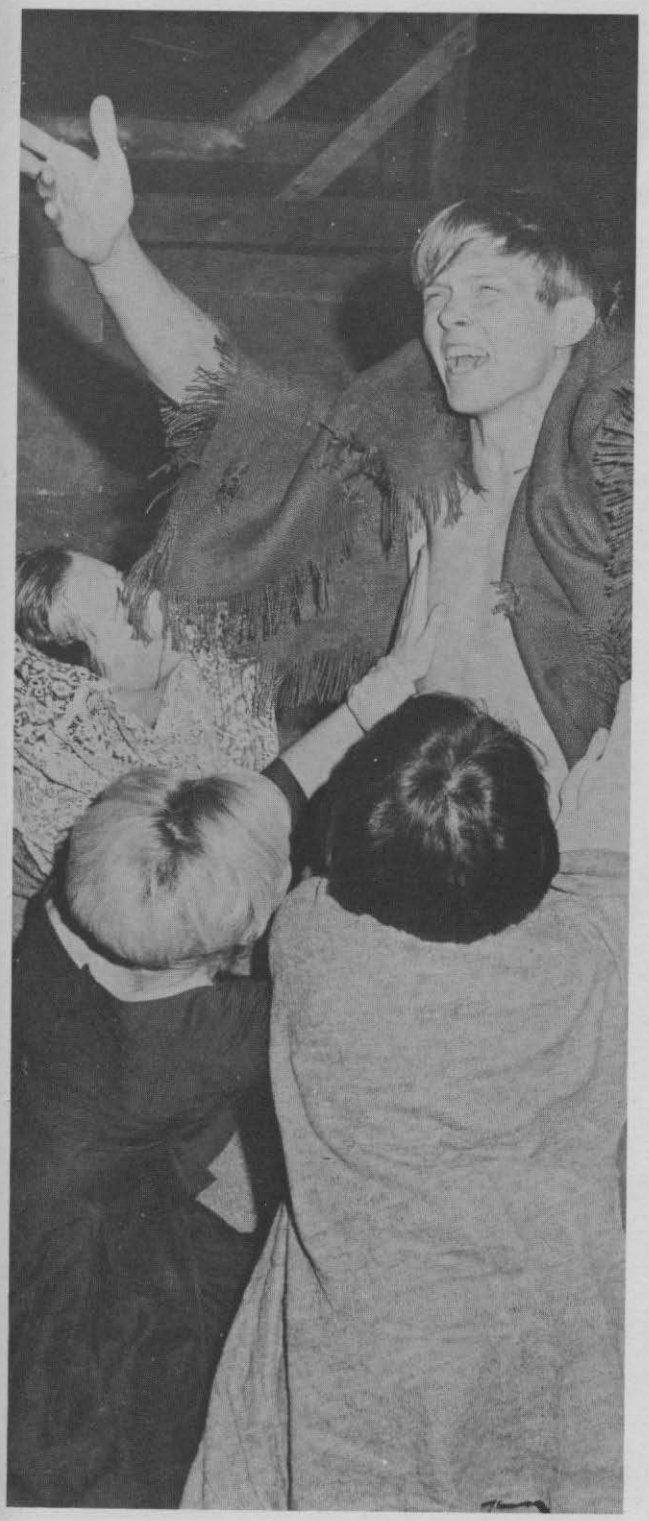
GRADUATE COURSES IN RELIGION

The department offers a program leading to a Master of Arts degree in Religion. See special graduate catalog. 400 courses require additional work for graduate credit.

430 SEMINAR IN THE PHILOSOPHY OF AUGUSTINE **2-3 hours first semester**
An intensive study of the philosophical writings of Augustine and his influence in religion and the history of thought.

455 ROMAN CATHOLIC THOUGHT THROUGH THE CENTURIES **3 hours**
A thorough examination of the origin and development of Roman Catholic doctrine.

467 PSYCHOLOGY SEMINAR IN INTERPERSONAL RELATIONS **3 hours**
This experience will afford an opportunity for people to explore their own psychological reactions and the reactions of other people in a



group setting. The participants should gain an awareness and understanding of the pshychological and social forces which affect people, and of the complexity of interpersonal relations.

470 EXISTENTIALISM AND CHRISTIANITY **3 hours**
The study of existentialism in its relationship to Christianity with special attention to Berdyaev, Kierkegaard, and Unamuno.

471 AMERICAN EXISTENTIALISM **3 hours**
A study of the thought of Reinhold Niebuhr and Paul Tillich.

473 APOCALYPTIC LITERATURE OF THE BIBLE **2 hours**
A study of the nature and interpretation of the apocalyptic writings included in the Bible with emphasis on the Book of Revelation.

474 MODERN RELIGIOUS SECTS IN AMERICA **3 hours**
A study of the main present-day religious movements in America outside the more historic protestant denominations. Reference will be made to the origins, doctrinal emphasis, and present trends in such groups as Jehovah's Witnesses, Christian Science, Mormonism, etc.

545 PRINCIPLES OF RELIGIOUS COUNSELING **3 hours**
A study of the basic principles and methods of religious counseling with special reference to the role of the minister.

546 CASE STUDIES IN RELIGIOUS COUNSELING **3 hours**
A continuation of Religion 545 which provides opportunity for analysis of specific cases of religious counseling with reports from the students.

575 THESIS **4-6 hours**

SPEECH AND DRAMA

Lee, Gunderson, Stien, Waltz

The purpose of the Speech and Drama Department is to give the student basic training in organizing and communicating ideas that will make him a more effective individual in social and business situations; to provide cultural training in the appreciation of drama and literature; and to develop the ability to effectively interpret literature and plays.

MAJOR AND MINOR REQUIREMENTS

A major in Speech and Drama consists of at least thirty semester hours and a minor of at least sixteen semester hours. The courses will be selected after consultation with the Speech Department. Both majors and minors must take Speech 110 and 494.

SPEECH AND DRAMA COURSES

110 FUNDAMENTALS OF SPEECH **2 hours each semester**
The course is designed to offer the student an opportunity to develop an effective speech personality and ability to communicate orally, with the aim of aiding the student in becoming an efficient member of the social order. A review of the history of speech as a liberal art is included.

121 VOICE AND DICTION **2 hours first semester**
A study of the mechanics of good voice and speech production and

practical application and training in these techniques. (Offered 1966-67.)

130, 230, 330, 430 PRIVATE LESSONS **1 hour**
Individual instruction in interpretation and speech may be arranged with the instructor. Fee: $60 per semester. One hour credit is given for one thirty-minute lesson a week per semester. Students who present a senior recital are expected to take private lessons.

131 LITERARY INTERPRETATION **3 hours each semester**
The aims of this course are to aid the student in comprehending the intellectual and emotional meaning of the printed page as intended by the author, and to give instruction and practice in the techniques that will enable the student to convey that meaning to others by the use of vocal and physical expression.

132 LITERARY INTERPRETATION **2 hours second semester**
This course gives continuation of the work in Literary Interpretation 131, including the more careful study of dialects and some of the more difficult types of interpretative reading. Prerequisite: 131.

160, 260, 360, 460 FORENSIC DEBATE **1 hour**
Intercollegiate debate and forensic speaking including discussion, after-dinner speeches, radio, oral interpretation, extempore, oratory, etc. Prerequisite: Permission of instructor.

175, 275, 375, 475 DRAMA WORKSHOP **2 hours each semester**
It is the purpose of this course to give study and experience in the backstage areas of producing a play. The work includes the overall planning of a production in addition to each student's doing specific work on scenery design and construction, lighting, stage makeup, costume, or play direction. The course may be repeated with emphasis in different areas.

261 ARGUMENTATION, PERSUASION, AND DEBATE
3 hours first semester
A course designed to emphasize the theory and practice of persuasion. Practice in finding and evaluating evidence, construction of arguments, rebuttals and delivery in debate is stressed. Special attention is given to the national intercollegiate debate question for analysis. The ethics of persuasion in modern society is included in the work of the course. (Offered 1966-67.)

273 INTRODUCTION TO ACTING **3 hours first semester**
A study and practice of the principles of acting including vocal and bodily expression and projection, pantomime, character portrayal, stage positions and movement, and the techniques of creating and sustaining a role.

274 PRINCIPLES OF ACTING **3 hours second semester**
The work in this class will be concerned with the application of the techniques of course 273 through the actual experience of the preparation of and participation in various plays. Time for rehearsals outside of the regular class periods will be required. Prerequisite: 273.

321 COMPOSITION AND RHETORIC **3 hours first semester**
The application of the principles of rhetoric to the improvement of style and composition. The accent is on preparation and relatively little attention is devoted to the techniques of speech delivery. (Offered 1967-68.)

322 ADVANCED PUBLIC SPEAKING **3 hours second semester**
A course in the more advanced forms of speech composition and presentation. Study in the selection, organization, and delivery of speech material will be stressed. (Offered 1967-68.)

331, 332 ADVANCED LIBRARY INTERPRETATION
2 hours each semester
A study of more advanced work in interpretation and the development of repertoire for advanced speech students. Prerequisites: 131, 132.

371 INTRODUCTION TO RELIGIOUS DRAMA **2 hours first semester**
The intent of this course is to give a careful study of the use of dramatic forms in religious worship and religious education work, including consideration of objectives, sources of material, various dramatic forms, procedures for different situations, and some experimental work. (Offered 1966-67.)

471 HISTORY OF DRAMA **3 hours**
A review of the history of drama from the Greeks to modern times. A section on the Oriental theater is included. Special projects are assigned as a part of the course and designed to encourage individual study in the field. (Offered 1967-68.)

481, 482 PROJECTS IN SPEECH AND DRAMA
1-3 hours each semester
For students who are majoring or minoring in speech. Students will be given opportunity to work on individual projects in which they have special interest. Hours and credits are to be arranged with the instructor.

483 SPEECH FOR THE CLASSROOM TEACHER **3 hours first semester**
Emphasis is placed on the prospective teacher's own competency as a speaker and the understanding and practice of speech activities useful in teaching. Methods of utilizing public speaking, discussion, story telling, oral reading, dramatics, and speech correction procedures in the teaching situation are presented. (Offered 1967-68.)

494 SEMINAR IN SPEECH AND SPEECH RESEARCH
4 hours second semester
Review of the field of speech in preparation for the comprehensive examination and integration of work taken in the various fields of speech. Required of all speech majors and minors of junior-senior rank. (Offered 1967-68.)

Natural Sciences

BIOLOGY

CHEMISTRY

ENGINEERING

GEOLOGY

HOME ECONOMICS

MATHEMATICS

PHYSICAL EDUCATION

PHYSICS


ERIC
JOHNSTON
SCIENCE
CENTER

Though science is perhaps best known as a servant of mankind, the Whitworth Natural Sciences Division places greatest emphasis on science as an adventure of the mind. To share in that adventure is to understand the thought processes of science, to appreciate how man's understanding of the material world has grown, to see the frontiers still to be conquered, and to know that there are limits to what may be known through the scientific method. It is to this skeleton of insights that the various departments of the Natural Sciences Division add flesh and blood, so that the great ideas of science will not be mere abstractions but will be anchored to the real world in which men live.

BASIC SCIENCE MAJOR

In order to satisfy the requirements of many students who desire a broader education than that allowed by department majors, the major in basic sciences has been planned. This requires ten semester hours in each of the departments of Biology, Chemistry, and Physics, with ten hours of upper division credit in one of those fields. Modern Language and Mathematics are recommended. A minor must be chosen from some field other than Biology, Chemistry, and Physics.

BIOLOGY

Stien, Fick, Gray, Wahl

Biology attempts to give students a thorough understanding of biological fundamentals and an awareness of the complexity and organization that is present in the world of organisms. A major in biology prepares students for graduate study, for teaching biology, for work in technical laboratories, and for entrance into professional schools in medical and dental fields.

MAJOR REQUIREMENTS

A person majoring in biology must complete a minimum of 28 semester hours selected from departmental courses which will include Biology 111, 112 and 410. Biology majors who plan to teach must include Biology 100, 118, 119, 120, and 121. All majors will be required to take 3 semesters of chemistry, Mathematics 115 and 116, and 8 hours of physics.

MINOR REQUIREMENTS

A minor in biology consists of at least 16 semester hours including Biology 111 and 112 or Biology 201 and 202. Permission may be granted to substitute other courses. Biology 118, 119, 120 and 121 may not be included in a biology minor.

Suggested Curriculum: Pre-Medical Studies

Recommended for the Freshman Year

- English Composition
- Mathematics 113, 115, 116
- Biology 111, 112
- Speech Fundamentals
- Bible
- Physical Education

Recommended for the Sophomore Year

- Chemistry, 1 year of Inorganic
- Psychology 101
- Sociology 111
- Physical Education
- Bible

Recommended for the Junior and Senior Years

- Biology 321, 350, 352, 363, 410
- Chemistry, one year of Organic plus one additional semester
- Physics, General

BIOLOGY COURSES

100 GENERAL BIOLOGY — **4 hours both semesters**

A general study of the basic principles of the structure and function of organisms, with attention given to the nature of protoplasm, cell structure, metabolism, and organismal and ecological relationships. Repeated each semester. A terminal course. Four lectures.

111, 112 GENERAL ZOOLOGY — **4 hours each semester**

A course designed as the basic prerequisite course in the department. General biological principles and the integration of life processes will be studied through representative animals from both the invertebrate and vertebrate groups. Three lectures and two hours of laboratory.

118 HUMAN ANATOMY LABORATORY — **1 hour first semester**

Dissection of the cat is supplemented with demonstrations, charts, models, and the human skeleton. Two hours of laboratory.

119 HUMAN PHYSIOLOGY LABORATORY — **1 hour second semester**

The physiology of the human is studied in laboratory through experiments and demonstrations. Two hours of laboratory.

120 HUMAN ANATOMY — **3 hours first semester**

A study of the structure of the human body. Laboratory is optional and is listed as Biology 118, 1 hour credit. Three lectures. Not intended to satisfy the general education science requirement.

121 HUMAN PHYSIOLOGY — **3 hours second semester**

A study of the functions of the systems of the human body. A course designed to fit the needs of non-majors in the department. Laboratory is optional and is listed as Biology 119, 1 hour credit. Three lectures. Not intended to satisfy the general education science requirement. Prerequisite: Biology 120.

200 MICROBIOLOGY — **4 hours first semester**

The classification of micro-organisms and their physiological and pathological reactions. Sterile and pure culture techniques and the morphology and physiology of bacteria will be emphasized in the laboratory. Three lectures and two hours of laboratory.

201, 202 GENERAL BOTANY — **4 hours each semester**

A study of the structure, function and relationships of plants, through representative forms from the major groups. Three lectures and two hours of laboratory.

250 FAUNA OF THE REGION — **3 hours summer**

A study of the various animal groups emphasizing forms native to

the Spokane region. Collecting, mounting, and classifying methods will be presented in the laboratory. Prerequisites: An introductory course in biology is recommended.

303 FLORA OF THE REGION **4 hours second semester**
A study of the wild flowers of the Spokane region emphasizing methods of collecting, mounting, and classifying plant material. Three lectures and two hours of laboratory. Prerequisites: Biology 201, 202.

304 ORNITHOLOGY **4 hours second semester**
A study of the morphology, life history, behavior, and taxonomy of birds with emphasis on local forms. Three lectures and two hours of laboratory. Prerequisites: Biology 111, 112.

305 ECOLOGY **4 hours first semester**
A study of the relationship of plants and animals to their environment, stressing ecological principles and terminology. Three lectures and two hours of laboratory. Prerequisites: Biology 111, 112.

308 ENTOMOLOGY **4 hours second semester**
The morphology, life history, behavior, and taxonomy of insects will be studied with emphasis on local forms. Three lectures and two hours of laboratory. Prerequisites: Biology 111, 112.

320 HUMAN ANATOMY **4 hours first semester**
An intensive study of the structure of the human body. Laboratory will consist of the dissection and study of an appropriate mammal supplemented with charts, models, and skeleton of the human. Three lectures and two hours of laboratory. Prerequisites: Biology 111, 112.

321 GENERAL PHYSIOLOGY **4 hours second semester**
A study of basic physiological processes with emphasis on vertebrate and human physiology. Three lectures and two hours of laboratory. Prerequisites: Biology 111, 112, 350, and two years of chemistry.

350 COMPARATIVE ANATOMY **4 hours first semester**
A detailed study of representative chordates, stressing comparative morphology and the dynamic aspects of anatomy. Three lectures and two hours of laboratory. Prerequisites: Biology 111, 112.

352 VERTEBRATE EMBRYOLOGY **4 hours second semester**
A study of the development of representative vertebrates from fertilization of the egg to the formation of definite tissues and organs. Three lectures and two hours of laboratory. Prerequisites: Biology 111, 112.

362 HISTOLOGY AND MICROTECHNIQUE **4 hours first semester**
A microscopic study of the cells and tissues of vertebrates emphasizing mammals. Laboratory will include fixing, sectioning, and staining methods useful in the preparation of slides and animal tissues and organs. Two lectures and four hours of laboratory. Prerequisites: Biology 111, 112.

363 GENETICS **3 hours second semester**
A study of the principles of heredity with application to plants and animals. Three lectures. Prerequisites: Biology 111, 112.

400 RESEARCH **1-2 semester hours**
Special problems may be investigated by qualified students in the literature and laboratory under the direction of the departmental staff. Prerequisites: Permission of the department.

410 MODERN BIOLOGY **3 hours second semester**
A correlative study of the various divisions of biology emphasizing current activities in the field and student participation in library research and discussion. Open to biology majors and minors ordinarily in the senior year; others by permission.

CHEMISTRY

Bocksch, Johnston, Winniford

The objectives of this department are to inculcate a knowledge of the basic laws and theories of chemistry in such a way that the student will be able to use and apply them in his living, to give the student an understanding of the many applications of chemical principles in industry, and to awaken the student to the possibilities of further study in chemistry by giving him a glimpse of its unexplored fields.

The Department of Chemistry offers a variety of courses which serve to provide the non-chemistry major with a sufficient chemical background to employ in his chosen area. Additionally, sequences of courses are prescribed which may lead to either a Bachelor of Arts or a Bachelor of Science degree in Chemistry. Of these degrees, the Bachelor of Arts is broader, providing a basic introduction to the various areas within the domain of chemistry, but allowing for a wide choice of electives in other fields. The Bachelor of Science degree permits an intensive study of chemistry and related sciences, and is ordinarily pursued by those desiring to prepare for a professional scientific career or for graduate study in chemistry.

MAJOR REQUIREMENTS FOR BACHELOR OF ARTS

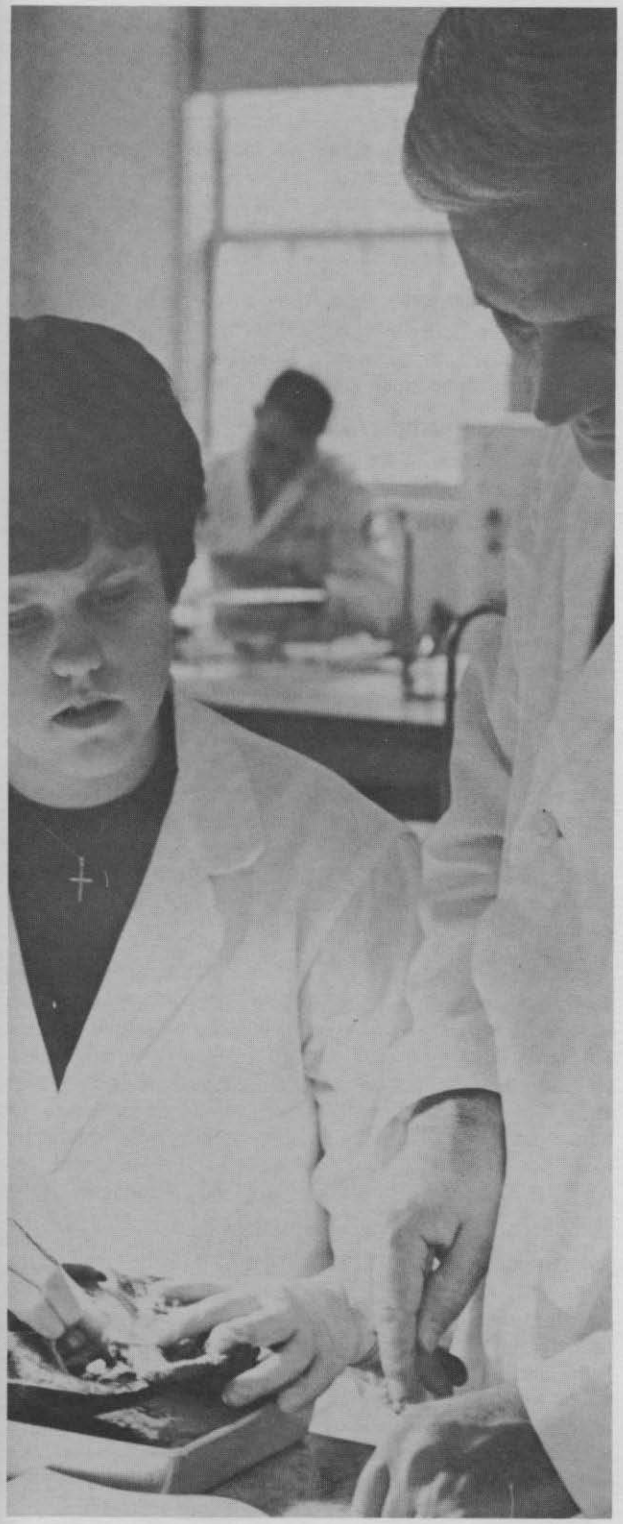
Twenty-four hours of chemistry, including Chemistry 121, 127, 132, 136, 241, 247, 351 or 352, and 480, plus one additional 300 or 400 series chemistry course. Also required are Physics 211 and 212, or 215 and 216, Mathematics 116, one course in biology, and Philosophy 201 or 378. The general college requirements must also be met.

MAJOR REQUIREMENTS FOR BACHELOR OF SCIENCE

Forty-two hours of natural science including Chemistry 121, 127, 132, 136, 241, 242, 247, 248, 351, 352, 357, 358, 480, and approved elective hours from the following group: Any 400 series chemistry courses, 200, 300 or 400 series courses in mathematics, 300 or 400 series courses in physics, and any geology or biology courses. Also required are Physics 215 and 216, Mathematics 116 and 255, Philosophy 201 or 378, and a reading knowledge of scientific German, French, or Russian. The general college requirements must also be met.

MAJOR REQUIREMENTS FOR TEACHERS

The Bachelor of Arts degree outlined above will satisfy the major requirement for certification on the secondary level. However, since



science teachers frequently are asked to teach courses outside of the major, additional coursework in biology, geology, mathematics, and languages is strongly recommended.

MAJOR REQUIREMENTS FOR PREMEDICAL STUDENTS

Since medical schools require significantly more chemistry than any other single subject, the election of the chemistry major permits premedical students to fulfill the medical school requirements with the greatest amount of remaining time for electives. Additionally, beginning the chemistry sequence in the freshman year permits taking the Medical College Admission Test after completion of the Organic Chemistry sequence but otherwise early enough to allow possible acceptance to medical school in the junior year. Of the chemistry courses required for the B.A. degree (see above), Chemistry 121, 127, 132, 136, 241, and 247 are required by all northwest medical schools. Additionally, Chemistry 351 and Mathematics 116 are recommended by all. In order to meet the further requirements of the medical schools, the premedical student should also elect Chemistry 242 and 248, 6-10 hours of biology courses, 8 hours of physics, and any additional courses required by the particular medical school of his choice.

MINOR REQUIREMENTS

A minor in chemistry consists of at least 16 hours, including Chemistry 121, 127, 132, 136, 241, and 480.

CHEMISTRY COURSES

102 INTRODUCTORY BIOLOGICAL CHEMISTRY — 3 hours

Covers material parallel to that taught in Chemistry 103 and 104, but presented as a 3-unit one semester evening course. Provides fundamentals of general, organic, and biochemistry for students who plan to enter a life science field where a large exposure to chemistry is not considered essential, or for those who wish some knowledge in these areas to add to their general understanding.

103 INTRODUCTORY BIOCHEMISTRY — 2 hours first semester

An introduction to organic and biochemistry especially designed for students of nursing, home economics, and other life-science students who wish only a brief acquaintance with the fields. This course familiarizes the student with the terminology of organic chemistry, but emphasizes the concepts of biological organic chemistry, the organic chemistry of natural and synthetic polymers, and aspects of current interest in the field. Two lectures per week. Prerequisite: High school chemistry or permission of the instructor. Students other than diploma nursing students should elect Chemistry 109 concurrently.

104 INTRODUCTORY GENERAL CHEMISTRY — 2 hours second semester

A survey of the basic principles of general and inorganic chemistry primarily for students of nursing, home economics, and others who wish only a brief introduction. The course emphasizes use of and interconversions within the measuring systems, the periodic laws of the elements, and nuclear and radiation chemistry. Prerequisites: Chemistry 103 and two years of high school math, or permission. Students other than diploma nursing students should elect Chemistry 110 concurrently.

109 INTRODUCTORY ORGANIC CHEMISTRY LABORATORY
1 hour first semester

A laboratory course correlated with Chemistry 103 and designed to acquaint the student with a knowledge of modern practices in organic laboratory chemistry. Certain chemical aspects of foods and other natural products will be investigated. One three-hour laboratory per week. Prerequisite: High school chemistry laboratory or permission.

110 INTRODUCTORY GENERAL CHEMISTRY LABORATORY
1 hour second semester

A laboratory course correlated with Chemistry 104. An introduction to precise laboratory techniques through an investigation and analysis of unknowns, stressing use of accurate measuring equipment. Radiation measuring equipment is also introduced. One three-hour laboratory per week. Prerequisite: Chemistry 109, or permission.

121 THEORIES OF CHEMISTRY **3 hours first semester**

An up-to-date course in basic chemistry which emphasizes the principles of atomic and nuclear structure, the chemical bond, and periodicity, as well as the more traditional subjects dealing with chemical reactions, solutions, and gas laws. An introduction to quantum mechanics and relativity is incorporated into the course. Three lectures per week. Prerequisite: High school chemistry and two years of high school mathematics, or permission. Students ordinarily register for Chemistry 127 concurrently.

127 QUALITATIVE ANALYSIS LABORATORY **1 hour first semester**

The detection of selected anions and cations and the analysis of special substances. The estimation of quantities present as well as the identity of ions is stressed. One three-hour laboratory period per week. Chemistry 121 should be elected concurrently. Prerequisite: Satisfactory grades in standard high school chemistry laboratory courses or permission.

132 INORGANIC AND ANALYTICAL CHEMISTRY
3 hours second semester

Concepts of inorganic chemistry with emphasis upon the theory of equilibrium reactions and its application to inorganic analyses. Topics such as solubility product constants, ionization, ionization constants, complex ions, oxidation and reduction, and electrical methods of analysis are discussed. Prerequisite: Chemistry 121. Chemistry 136 is usually elected concurrently. Three lectures a week.

136 INORGANIC ANALYSIS LABORATORY **2 hours second semester**

Gravimetric, volumetric, and selected instrumental methods of analyses illustrating the principles of chemical equilibrium developed in Chemistry 132. Designed for majors who continue with instrumental analysis and for premedical students or other students who want only one semester of quantitative analytical laboratory experience. Two three-hour laboratory periods per week. Prerequisite: 127.

241 ORGANIC CHEMISTRY **3 hours first semester**

An integrated study of aliphatic and aromatic compounds, emphasizing modern interpretations of organic reactions. While designed primarily for students majoring or minoring in chemistry and who will continue with Chemistry 242, the course may be elected by those who desire an introduction to the basic terminology and principles of organic chemistry and wish only one semester of study in this area. Three lectures per week. Ordinarily accompanied by Chemistry 247. Prerequisite: Chemistry 132.

242 ORGANIC CHEMISTRY **3 hours second semester**

A continuing study of the topics introduced in Chemistry 241, including polyfunctional molecules, polymers, and the chemistry of natural products. A glimpse into biochemistry is also provided. Three lectures per week. Ordinarily accompanied by Chemistry 248. Prerequisite: Chemistry 241.

247 ORGANIC CHEMISTRY LABORATORY **2 hours first semester**

Basic techniques in the synthesis and identification of organic compounds. Designed to accompany Chemistry 241. Two three-hour laboratory periods per week. Prerequisite: Chemistry 136.

248 ORGANIC CHEMISTRY LABORATORY **2 hours second semester**

Advanced techniques in the synthesis and identification of organic compounds. Use is made of specialized and instrumental methods to solve the problems presented. Certain biochemical procedures are also introduced. Two three-hour laboratory periods per week. Designed to accompany Chemistry 242. Prerequisite: Chemistry 247.

327 NUCLEAR THEORY **2 hours second semester**

An introduction to the theory of nuclear structure, radioactivity, nuclear reactions, and radiation absorption and measurement. Ordinarily accompanied by Physics 328. Prerequisites: Physics 326, Mathematics 116. (Offered 1967-68 and alternate years.)

328 RADIOISOTOPE LABORATORY **2 hours second semester**

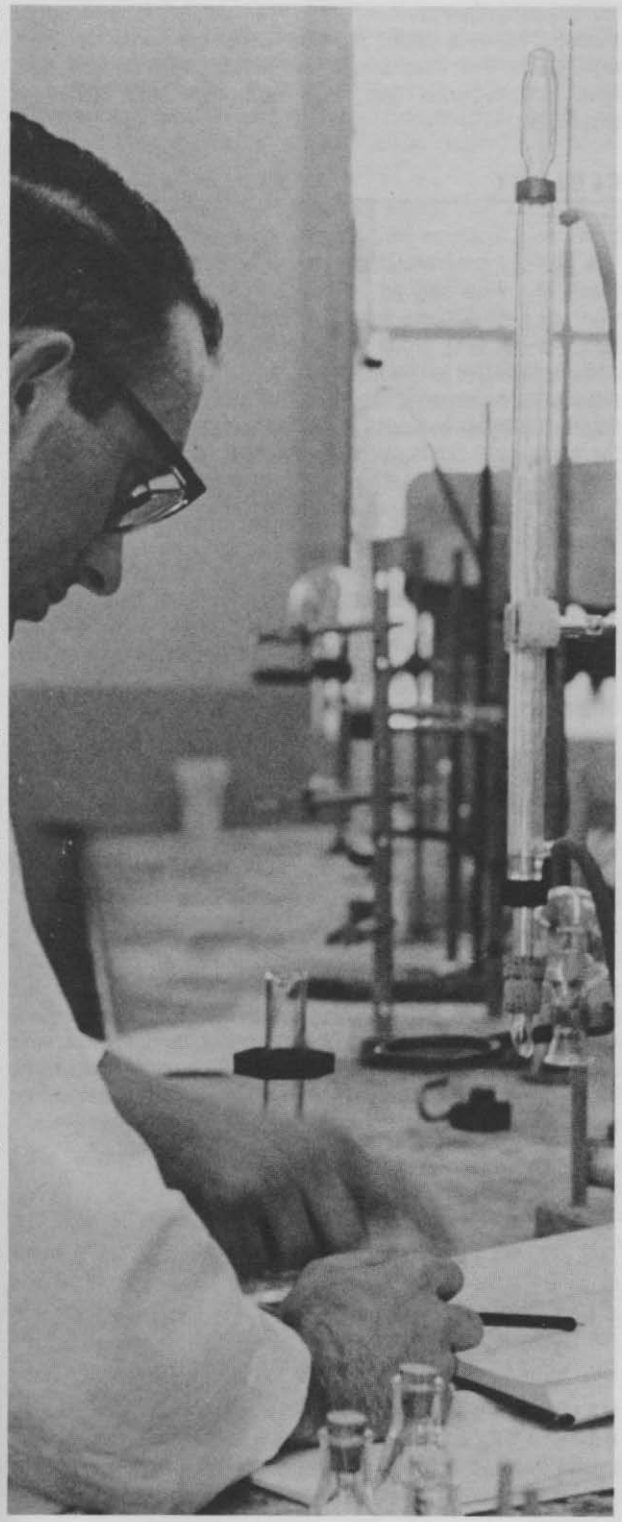
An experimental study of radioactivity and nuclear radiations. Methods of radiation detection and measurement, sample preparation, and data interpretation are emphasized. Two laboratory periods per week. Prerequisite: Chemistry 136 or permission. Concurrent registration in Physics 327 is required. (Offered 1967-68 and alternate years.)

351 PHYSICAL CHEMISTRY **3 hours first semester**

A study of the gaseous, liquid and solid states of matter, introductory thermodynamics, solutions and colligative properties, chemical equilibrium, electrochemistry, kinetics, colloid and surface chemistry and introductory radiochemistry. The course deals with those aspects of physical chemistry which provide a background for further study in the chemistry of living systems. Three lectures per week. Concurrent registration in Chemistry 357 is suggested. Prerequisites: Chemistry 132, Physics 212 or 216, Mathematics 116 or permission.

352 PHYSICAL CHEMISTRY-THERMODYNAMICS
3 hours second semester

A study of the first, second, and third laws of thermodynamics; heat, heat transfer and work; energy, enthalpy, entropy, Gibbs and Helmholtz functions and their applications. Includes kinetic theory of matter and beginning statistical mechanics. The course is designed to teach thermodynamic principles and their application to students in chemistry, physics and engineering. Three lectures per week. Concurrent registration in Chemistry 358 is suggested. Prerequisites: Chemistry 132, Physics 212, Mathematics 255 or permission.



357 PHYSICAL CHEMISTRY LABORATORY **2 hours first semester**
Experiments designed to illustrate physico-chemical principles and to familiarize the student with the equipment and methods of modern physical chemistry. Independent planning and execution of experiments is encouraged. Six hours of laboratory time and reporting of results. Concurrent enrollment in Chemistry 351 is usual. Prerequisites: Chemistry 136 and 247.

358 PHYSICAL CHEMISTRY LABORATORY **2 hours second semester**
Laboratory projects in physical chemistry. A course designed to further the student's ability to plan work, collect and evaluate data with minimum guidance. Six hours laboratory time and reporting of results. Prerequisites: Chemistry 136, 247, 248 or 357, or permission.

405 ADVANCED INORGANIC CHEMISTRY **4 hours first semester**
A study of various topics and problems in modern inorganic chemistry, including chelation, stereochemistry, and catalysis. The laboratory deals with the synthesis and purification of inorganic and metalorganic compounds, with emphasis on methods and techniques. Three lectures, one 3-hour laboratory period per week. Prerequisites: Chemistry 242, 247, 351, and 357 or 358, or permission. (Offered 1968-69.)

440 INSTRUMENTAL ANALYSIS **4 hours second semester**
A theoretical study of various instrumental methods of analysis with emphasis upon those utilizing electrical properties of solutions and emission and absorption spectra. The laboratory is integrated with the lecture material and employs a variety of electrical and optical methods, such as infrared and ultraviolet spectroscopy, fluorometry, polarography, gas chromatography, and others. Two lectures and two three-hour laboratories per week. Prerequisites: Chemistry 241 and 247. Chemistry 351 and 357 or 352 and 358 are strongly recommended. (Offered 1968-69.)

452 INTRODUCTION TO BIOCHEMISTRY **4 hours first semester**
A study of the principles of biochemistry, including the chemistry of metabolism, the theories of modern biochemical analysis, and the use of modern organic mechanisms and structural concepts for the prediction and understanding of the biochemical reactions. The laboratory is integrated with the lecture and employs modern equipment for the separation and identification of biologically important compounds. Use of the respirometer, high speed centrifuge, and other devices is made. Two lectures and two three-hour laboratories per week. Prerequisites: Chemistry 242 and 248, and one course in college biology. Chemistry 351 is strongly recommended. (Offered 1967-68.)

480 SEMINAR **1 hour each semester**
Discussion and literature research of current scientific problems; attendance at local scientific meetings. Required of all chemistry majors and minors. Prerequisite: Permission.

490 RESEARCH **1-5 hours each semester**
Allows qualified science students to engage in research problems currently being investigated in the Chemistry Department. Prerequisite: permission.

ENGINEERING

McCroskey

Instruction in engineering, including chemical, civil, electrical, mechanical, etc., is the application to specific problems of the principles and skills of mathematics, physics, chemistry, and other sciences. (See Engineering curriculum on page 21.)

ENGINEERING COURSES

101 ENGINEERING PROBLEMS AND ORIENTATION **2 hours first semester**

Training in methods of analyzing and solving engineering problems. Practice in clear thinking and arrangement of work using graphical and mathematical methods. Discussion of professional ideals, responsibilities and ethics; employment in various fields and functions of engineering.

111 ENGINEERING GRAPHICS I **2 hours first semester**

Freehand drawing and lettering, orthographic projection, sections and conventions, specifications, pictorial drawing, spatial geometry, rotation. Solution of engineering problems through "open-end" types of projects.

112 ENGINEERING GRAPHICS II **2 hours second semester**

Plane and curved surfaces, intersections, specifications, processing methods and procedures, fasteners, production dimensioning, geometry of vectors, graphical mathematics. Prerequisite: Engineering 111.

121 FUNDAMENTALS OF SURVEYING **2 hours second semester**

Use of engineers tape, level and transit. Surveying methods applied to problems in construction and area survey Prerequisite. Engineering 111.

211 MECHANICS OF SOLIDS I **5 hours first semester**

Principles of statics; force systems, equilibrium, structures, distributed forces, friction, virtual work. Mechanics of materials: forces and deformations, torsion, stresses in beams. Prerequisite: Engineering 101, Math 116.

212 MECHANICS OF SOLIDS II **5 hours second semester**

Mechanics of materials: deflection of beams, indeterminate beams, energy concepts, columns, riveted and welded joints. Principles of dynamics: Kinematics, force, mass and acceleration, work and energy, impulse and momentum. Prerequisite: Engineering 211.

245 INTRODUCTION TO COMPUTER PROGRAMMING **1 hour second semester**

Programming engineering, mathematical and data processing problems using various programming languages and systems. Prerequisite: Math. 115.

301 FLUID MECHANICS **3 hours first semester**

Fluid statics and dynamics, flow of gases and fluids, drag and lift, open-channel flow, flow measurements, turbomachines. Prerequisite: Engr. 212, Math. 262.

352 THERMODYNAMICS **3 hours second semester**

A study of the first, second and third laws of thermodynamics; heat, heat transfer and work; energy, enthalpy, entropy; thermodynamic systems. Prerequisite: Engr. 212, Math. 255. (Also offered as Physics 352.)

GEOLOGY

Olson

The geology program is aimed at two types of students — those who wish only an introduction to the field and those who will pursue some aspect of earth science in their vocation. For the first group, the goal is to create an observant and appreciative attitude toward the geologic processes and structures which each student observes in his home locality and in travel for business or pleasure. For the second group, the same goal exists but with the additional emphasis on a thorough grounding both in the branches of geology and in the related sciences of chemistry, physics, biology and mathematics.

Within the geology program there are four integrated curricula addressed to students with different interests. All will find the introductory courses in Physical and Historical Geology excellent for securing a broad outline of geology, and the general student may wish to stop at this point. Others will find the minor curriculum meets their needs; in this category are elementary school teachers and those training for such business professions as economics and law. For students heading for secondary school science teaching, the major curriculum leading to a B.A. in geology gives excellent preparation. Finally the potential professional geologist will enter the program that culminates in the B.S. degree.

It should be emphasized that the B.S. program is in no sense terminal; that is, it is not designed so that the student may enter industry directly after graduation. The preparatory nature of the program is indicated by the great emphasis upon the basic sciences; in fact, a minor in one of these fields is required along with the major in geology. Thus, the student should be well equipped to pursue further work toward the masters or doctors degree.

MAJOR REQUIREMENTS FOR THE BACHELOR OF ARTS

Twenty-four hours of geology including Geology 129, 130, 139, 140, 150, 222, 444 and a one-month summer field course; one semester of general chemistry (Chemistry 121, 127); one year of general physics (Physics 211, 212); one semester of biology (Biology 100); and college algebra and troginometry (Mathematics 113, 115). Major and related courses thus total at least 45 hours.

MAJOR REQUIREMENTS FOR THE BACHELOR OF SCIENCE

Thirty-two hours of geology including Geology 129, 130, 139, 140, 222, 441, 442, 444 and a 5-hour field course taken during the sum-

mer preceding the senior year; one year of general chemistry (Chemistry 121, 127, 132, 136); one year of general physics (Physics 215, 216); one semester of biology (Biology 100); and mathematics through calculus (Mathematics 113, 115, 116, 255). Major and related courses thus total at least 68 hours. Demonstrated reading proficiency in German, Russian, or French is also required.

MINOR REQUIREMENTS

A minimum of sixteen hours including Geology 129, 130, 139, 140, 150, and 222. A one-month summer field course is also strongly recommended.

GEOLOGY COURSES

129 PHYSICAL GEOLOGY **3 hours first semester**

A study of the composition and structure of the earth and the processes that continually change its appearance. Lecture only. Lecture topics are integrated with actual observation through a companion laboratory course, Geology 139.

130 HISTORICAL GEOLOGY **3 hours second semester**

A study of the earth's history from its primordial origin to the appearance of man. Lecture only. Lecture topics are integrated with actual observations through a companion laboratory course, Geology 140.

139 LABORATORY IN PHYSICAL GEOLOGY **1 hour second semester**

A two-hour laboratory providing firsthand examination of rocks and minerals in both hand specimen and field occurrence. Topographic map work. One all-day field trip.

140 LABORATORY IN HISTORICAL GEOLOGY **1 hour second semester**

A two-hour laboratory providing firsthand examination of fossils in hand specimen. Geologic map studies. One all-day field trip.

150 SPACE AGE ASTRONOMY **3 hours second semester**

An introductory course in astronomy. Topics include a survey of the history of astronomy, astronomical instruments, the solar system, meteorites, the Milky Way galaxy, the expanding universe, stellar and galactic evolution, cosmology, radio astronomy, space exploration, life on other planets.

222 ROCKS AND MINERALS **4 hours first semester**

A basic course considering the major families of rocks and minerals with emphasis on composition, properties, economics, and identification. Three lectures and one two-hour laboratory per week. Prerequisites: Geology 129, 130. (Offered 1966-67 and alternate years.)

301, 302 SPECIAL READING IN GEOLOGY **1 hour both semesters**

Designed to broaden the student's knowledge in fields not covered by separate courses in the Whitworth Geology curriculum. The reading of a standard text is required in a selected field, periodic consultation with the department to report on progress and to discuss problems, and passing of a test or submission of a paper at the end of the semester. Fields suggested are: petroleum geology, ore deposits, structural geology, glacial and Pleistocene geology, elementary paleontology, geology of the Pacific Northwest or other regions of North America. Prerequisites: Geology 129, 130.

323 THEORETICAL MINERALOGY AND PETROLOGY **4 hours second semester**

A course of advanced topics including crystal chemistry, rock genesis, thin-section examination, and special techniques of identification and structure determination. Three lectures and one two-hour laboratory per week. Offered on demand.

441 CHEMISTRY IN GEOLOGY **3 hours first semester**

A comprehensive course surveying the following topics: geochemistry of the hydrosphere, atmosphere, and biosphere; meteorites and cosmochemistry; stable isotope variations and their significance; distribution and migration of chemical elements in the earth's crust; radioactive methods of age measurement. Three lectures per week. Prerequisites: Chem. 121, 132, or permission. (Offered 1967-68 and alternate years.)

442 PHYSICS IN GEOLOGY **3 hours second semester**

A comprehensive course surveying the following topics: behavior of rocks under deformation, seismology, geomagnetism, gravity, figure of the earth, isostasy, heat balance of the earth, physics of the atmosphere and oceans. Three lectures per week. Prerequisites: general physics, Math 116, or permission. (Offered 1967-68 and alternate years.)

444 ADVANCED GENERAL GEOLOGY **3 hours second semester**

A senior course terminating the formal geologic training of major and minor students. Attempts to synthesize the various topics covered in earlier courses and to outline the current frontier areas of geologic study. Two lectures per week. Offered on demand.

480 RESEARCH **1-3 hours both semesters**

Qualified students may engage in research projects being carried out by the department.

HOME ECONOMICS

Rhodes, Goss

Training in Home Economics prepares a student for various professions. The graduate may enter the commercial world or several fields of educational work, including teaching Home Economics. The student may major in Home Economics but be an elementary classroom teacher if she prefers.

A student may work toward a Vocational Certificate during her fifth year of training at either the University of Washington or Washington State University.

A student may major in Home Economics with an emphasis in dietetics, leading to a hospital internship. Those students follow a chemistry oriented program and plan this program with their adviser.

MAJOR REQUIREMENTS

A major in home economics consists of 31 semester hours. Required courses are 101, 113, 116, 131, 132, 217, 218, 236, 280, 351, 361, 366, 371. Also required are Art 107, Chemistry 103 and 109, Biology 100, Psychology 101, Sociology 233, and Economics 203.

Courses recommended for electives are Home Economics 471, Chemistry 104 and 110, Biology 108 or 200, French 101, 102, and Philosophy 201.

Recommended for Freshman Year:

Home Economics 101, 113, 116, 131, 132.

English 101.
Chemistry 103 and 109.
Religion 102 or 112.
Speech 110.
Physical Education Activity.

MINOR REQUIREMENTS

A minor in home economics consists of sixteen semester hours. Required courses are 110, 217, 236, 351, and 361.

GENERAL COURSES

101 INTRODUCTION TO HOME ECONOMICS **1 hour first semester**

Introduces students to opportunities in all fields of home economics. Assists in adjustment to college life.

471 METHODS OF TEACHING HOME ECONOMICS **2 hours first semester**

This course brings out the methods and problems of teaching home economics both in the classroom and in other educational fields such as extension service work; organization and presentation of subject matter, demonstration techniques, teaching materials, equipment. (Offered 1966-67 and alternate years.)

475 DIRECTED READING IN HOME ECONOMICS **Credit to be arranged**

Intensive reading in some selected field of Home Economics. For upper division majors by permission.

TEXTILES AND CLOTHING

113 CLOTHING SELECTION **2 hours first semester**

Selection of clothing, considering design principles as applied to clothing; the effect of figure, personality, personal coloring on clothing choices; the clothing inventory, the clothing budget and wardrobe planning.

116 TEXTILES **2 hours second semester**

A study of textile fibers and fabrics; a basis for selection of materials for clothing and home furnishings.

217 CLOTHING CONSTRUCTION **3 hours first semester**

Fundamental processes of clothing construction, the using of the commercial pattern, fitting of garments.

218 TAILORING **3 hours second semester**

A continuation of Home Economics 217. Construction of garments requiring more advanced methods than in the preceding course; tailoring techniques. Prerequisite: 217.

FOODS AND NUTRITION

108 NUTRITION FOR NURSES **2 hours second semester**

Special emphasis is given in this course to the principles of normal nutrition. Planned to aid the student as an individual, as a nurse, and as a teacher of health.

110 MEAL PLANNING AND PREPARATION **2 hours second semester**

A survey course for students who are not Home Economics majors; experience will be provided in meal planning and serving as well as in the preparation of many foods. No prerequisite.

131 FOOD PREPARATION **3 hours first semester**

A study of the fundamental principles involved in the selection, preparation, and serving of foods.

132 ADVANCED FOOD PREPARATION **3 hours second semester**

A continuation of Home Economics 131; includes the planning, preparation, and serving of meals; food costs and marketing. Prerequisite 131.

361 NUTRITION **3 hours first semester**

A study of the components of the normal diet — carbohydrates, fats, proteins, minerals, and vitamins. Emphasis is given to quantitative as well as qualitative aspects; relation of food to health.

HOME MANAGEMENT

236 HOME FURNISHING **3 hours second semester**

A study of the principles involved in the decorating and furnishing of the home. (Offered 1966-67 and alternate years.)

280 HOME EQUIPMENT **2 hours first semester**

Selection, operation, and care of household equipment including the study of electricity, heat transfer in cooking, and household heating systems. Home Economics majors (only) receive science credit for this course. (Offered 1967-68 and alternate years.)

351 HOME MANAGEMENT **2 hours first semester**

The organization and management of time and labor, and the selection of equipment for the home. (Offered 1967-68 and alternate years)

366 CHILD DEVELOPMENT **2 hours second semester**

Needs, care and development of the child from infancy through preschool years; includes a study of nutrition for children. (Offered 1967-68 and alternate years.)

371 FAMILY HOUSING **2 hours first semester**

Appraisal of housing in relation to family living needs, lot selection, construction costs and maintenance. (Offered 1966-67 and alternate years.)

MATHEMATICS

Carlson, Bartel, McCroskey

The program in the Department of Mathematics is designed to meet the needs of students in the humanities, science, business and economics, and those who plan to teach on the elementary or secondary school level.

The objectives which it hopes to achieve include the following:

1. To give the student an awareness of the role of Mathematics in our society.
2. To enhance the student's ability in abstract and logical reasoning.
3. To develop an appreciation and understanding of FORM and STRUCTURE in Mathematics.
4. To provide the computational and operational skills required in related areas of learning.

The panel for teacher preparation of the "Committee for the Undergraduate Program in Mathematics" appointed by the Mathematical Association of America recommends that every prospective teacher of elementary school mathematics should include in his preparatory program a minimum of 12 semester hours of college-level mathematics.

MAJOR REQUIREMENTS FOR BACHELOR OF ARTS

A major in mathematics who seeks the B.A. degree will be required to complete a minimum of 29 hours beyond 115 and including 116, 255, 262, and selected courses in each of the areas of algebra, geometry, and probability. Thirteen of the 29 hours must be at the upper division level.

MAJOR REQUIREMENTS FOR BACHELOR OF SCIENCE

In addition to the general requirements for the B.S. degree as outlined in this catalog, the major must complete the following: A minimum of 32 hours beyond 115 and including 116, 255, 262, and selected courses in each of the areas of algebra, geometry, probability, and analysis. Sixteen of the 32 hours must be at the upper division level.

It is strongly recommended that students who aspire to graduate study should acquire a reading knowledge of either French or German or both.

MINOR REQUIREMENTS

A minor in mathematics consists of a minimum of 15 hours beyond 115 and including 116 and 255. It is also recommended that 262 and a course in probability be included in the program.

MATHEMATICS COURSES

104 INTERMEDIATE ALGEBRA — **3 hours first semester**

This course is offered for all students who have had only one year of high school algebra and for those desiring more adequate preparation for College Algebra.

Contents: Study of algebraic multiplication, division, factoring, special products, fractions, exponents, radicals, binomial theorem, linear equations, systems of equations and introduction to determinants.

Credits do not apply toward major or minor in mathematics, or satisfaction of the science requirement.

105 MATHEMATICS FOR BUSINESS ANALYSIS — **3 hours**

An introductory course in the mathematics required in the modern treatment of business analysis including mathematical relationships, graphs, slopes, equations, inequalities, vectors, matrices, elementary calculus, and probability. (Course not applicable for major or minor credit in mathematics.)

108, 109 BASIC CONCEPTS IN MODERN MATHEMATICS — **3 hours each semester**

Designed particularly for elementary and junior high school teachers but of real value to all students desiring to enrich their background in the meaning of our number systems, structure of arithmetic, algebra, and intuitive geometry. Subject matter includes mathematical systems, logic, sets, groups, axioms, deductive reasoning, and related applications.

110 FUNDAMENTALS OF MATHEMATICS — **3 hours each semester**

This course is designed to meet the elementary needs of students in introductory science courses, business administration, secretarial science, statistics, and other fields in which a thorough knowledge of the fundamentals of the mathematical processes is required or desirable. Arithmetical operations, applications of geometry, ratio and proportion, percentage, linear equations, logarithms, use of the slide rule, and introduction to symbolic logic, the theory of sets and elementary probability are included.

113 PLANE TRIGONOMETRY — **2 hours each semester**

This is a systematic study of the trigonometry functions, trigonometric equations and identities and inverse functions. Applications will be made to the fields of plane surveying, navigation, and physics. This course is a prerequisite to Physics 211 and Mathematics 116.
Note: Students should take 113 and 115 simultaneously.

115 COLLEGE ALGEBRA — **3 hours each semester**

Study of functions, coordinates, quadratic equations, systems of equations, determinants, cubic equations, logarithms, infinite series, mathematics of investment, probability and complex numbers.
Note: Students should take 115 and 113 simultaneously.

116 ANALYTICAL GEOMETRY AND CALCULUS — **5 hours each semester**

A unified approach to the study of analytic geometry and the calculus with emphasis upon concepts of variable, constant, function, limits, coordinate systems. Applications of the calculus to algebraic equations and simple integration. Prerequisites: Mathematics 113 and 115 or special examination.

245, 246 MODERN CONCEPTS IN MATHEMATICS — **3 hours each semester**

The contents of this course include the following topics: Introductory logic, "truth tables", applications to switching circuits, study of sets and sub-sets, elementary vectors and matrices, linear programming and applications to the physical and behavioral science problems. This course is of particular value to majors in the behavioral and social science fields as well as to those in the physical and biological sciences.

255 CALCULUS AND ANALYTIC GEOMETRY — **5 hours each semester**

A continuation of the subject matter of Mathematics 116 with applications to centroids, moment of inertia, and problems of physics. The course includes a study of the conic sections, transcendental functions, maxima, minima, three dimensional analytic geometry, multiple integrals, and elementary differential equations.

Both courses are essential to an adequate preparation in this field of study. Prerequisite: Mathematics 116.

262 DIFFERENTIAL EQUATIONS — **3 hours second semester**

A semester course including ordinary and partial differential equations with applications to geometry and physics. Prerequisite: Mathematics 255.

300 ELEMENTARY MATRIX ALGEBRA **3 hours second semester**
Introduction to algebra of matrices, determinants, inverse of a matrix, rank, equivalence, linear equations and dependence. Vector spaces and linear transformations.

323 INTERMEDIATE ANALYSIS **3 hours first semester**
A course in calculus bridging the gap between Math 255 and Math 415, it includes an application of sets to the calculus, precise analytic proofs, concepts of limits, continuous functions, uniform continuity, integral calculus, and infinite series.

334 ELEMENTARY PROBABILITY AND STATISTICS
3 hours second semester
An introduction to the study of mathematics of probability and the application of probability theory to the Study of Statistics.

344 SELECTIONS FROM MODERN ABSTRACT ALGEBRA
3 hours second semester
A modern approach to modular number systems, integral domains, fields, groups, Boolean algebra, matrices, linear systems, rings, ideals, and elementary set theory. Prerequisites: Mathematics 115 or Mathematics 110.

353 COLLEGE GEOMETRY **2 hours second semester**
An introductory course including a study of the properties of the triangle and the circle. Recommended to those students who are preparing to teach mathematics on the high school level.

355 MODERN GEOMETRY **2 hours second semester**
Sets and propositions, postulational systems, affine geometry, euclidean and non-euclidean geometry.

361 LINEAR ALGEBRA **3 hours second semester**
A systematic study of linear algebra including the concepts of sets, mathematical systems, fields, vector spaces, linear, transformations, determinants, matrices, with applications to geometry of two and three dimensions.

362 THEORY OF NUMBERS **3 hours first semester**
Development of the number system, divisibility, congruences, diophontine equations, and continued fractions.

363, 364 INTRODUCTION TO MODERN ALGEBRA
3 hours each semester
A course designed to acquaint the undergraduate student with some of the modern algebraic concepts such as sets, groups, fields, rings, matrices, system of linear equations, linear transformations, quadratic forms, vector spaces, with applications to analytic geometry. Although the calculus is not an absolute prerequisite, it is desirable that the student should have that mathematical maturity which such study should produce.

371 PARTIAL DIFFERENTIAL EQUATIONS **3 hours second semester**
An introduction to partial differential equations with applications to chemistry, physics, and engineering.

415, 416 ADVANCED CALCULUS **3 hours each semester**
A year course embracing an introductory study of explicit and implicit functions, Beta, Gamma and Bessel functions, vectors, line, surface and space integrals, elliptic integrals, ordinary and partial differential equations, functions of a complex variable. Prerequisite: Mathematics 255 and 262.

422 COMPLEX VARIABLES **3 hours first semester**
Theory of functions of complex variables, series expansions, contour integration, with applications.

HEALTH, PHYSICAL EDUCATION AND RECREATION

Cutter, Enos, Jacobs, Kamm, Marks, Merkel, Pelluer

The physical education department by means of activity courses, intramural sports, intercollegiate athletics, and informal recreational opportunities seeks to provide the individual student with experiences which will contribute to his physical, social, mental and emotional development. Through theory and activity courses the department provides a program of preparation for careers in physical education, athletic coaching and recreation leadership.

MAJOR AND MINOR REQUIREMENTS

Thirty hours are required for a major and sixteen hours for a minor not including the four hour activity requirement for graduation.

Men majors are required to take 135 A,B,C,D, 150, 160, 170, 300, 310, 320, 380 and 14 hours of approved electives. Other required courses are Biology 120 and 121. Those planning to teach physical education in secondary schools must include 360 and three courses from the following: 370, 371, 373, and 374. Recommended courses are: Education 413 and Home Economics 361.

Men minors are required to take 135 A,B,C,D, 150, 160, 170, 310 and 8 hours of approved electives. Recommended courses are: Biology 220 and 221 and Education 413.

Women majors are required to take 118, 130 A,B,C,D,E,F, 150, 160, 170, 300, 310, 320, 340, 350, 351 and 7 hours of approved electives. Other requirements are Biology 120 and 121. Recommended courses are: Education 412 and Home Economics 361.

Women minors are required to take 118, 130 A,B,C,D,E,F, 150, 160, 170, 310, 350, 351 and 1 hour of approved electives. Recommended courses are: Biology 120 and 121 and Education 412.

Aquatics is required for majors and minors lacking in swimming proficiency.

RECREATION

Requirements for a minor are Physical Education 150, Recreation 315 and 355, plus 10 hours of approved electives.

PHYSICAL EDUCATION ACTIVITY COURSES

101 VARSITY BASEBALL (MEN) **1 hour second semester**

102 VARSITY BASKETBALL (MEN AND WOMEN)
1 hour each semester

103 VARSITY FOOTBALL (MEN) **1 hour first semester**

104 VARSITY GOLF (MEN) **1 hour second semester**

105 VARSITY TENNIS (MEN AND WOMEN) 1 hour second semester

106 VARSITY TRACK & FIELD (MEN) 1 hour second semester

107 VARSITY AQUATICS (MEN) 1 hour each semester

108 VARSITY WRESTLING (MEN) 1 hour second semester

109 VARSITY CROSS COUNTRY (MEN) 1 hour first semester

110 VARSITY VOLLEYBALL (WOMEN) 1 hour first semester

111 A,B,C,D — AQUATICS (BEGINNING, INTERMEDIATE ADVANCED, LIFE SAVING) MEN AND WOMEN 1 hour each semester

112 ARCHERY (MEN AND WOMEN) 1 hour each semester

113 BASKETBALL AND SOFTBALL (MEN AND WOMEN) 1 hour second semester

114 BODY MECHANICS (WOMEN) 1 hour each semester
Fundamental skills used in everyday living, including posture, movement and relaxation techniques.

115 BOWLING (COED) Special Fee 1 hour each semester

116 MODERN DANCE (WOMEN) 1 hour each semester
A study of techniques of rhythmic movement in time, space, focus, range and pattern. Development of personal ability to create through bodily movement.

117 FIELD SPORTS AND VOLLEYBALL (MEN AND WOMEN) 1 hour first semester

118 FOLK DANCE (COED) 1 hour second semester

120 A,B — SKIING (BEGINNING, INTERMEDIATE, COED) Special Fee 1 hour each semester

122 TENNIS (MEN, WOMEN AND COED) 1 hour second semester

123 TUMBLING AND APPARATUS (MEN AND WOMEN) 1 hour each semester

124 WEIGHT TRAINING (MEN) 1 hour each semester

125 GOLF (COED) 1 hour second semester

126 BODY CONDITIONING (MEN AND WOMEN) 1 hour each semester

127 CIRCUIT TRAINING (MEN) 1 hour each semester

128 WRESTLING (MEN) 1 hour each semester

129 BADMINTON (MEN AND WOMEN) 1 hour each semester

THEORY COURSES

130 A,B,C,D,E,F — SKILL FUNDAMENTALS (WOMEN — MAJORS AND MINORS) 1 hour each semester
Basic and advanced skills of physical education and rhythmic activities.

135 A,B,C,D — PROFESSIONAL ACTIVITIES (MEN — MAJORS AND MINORS) 1 hour each semester
Basic skills, knowledges and strategies of games and sports used in school physical education programs.

150 INTRODUCTION TO HEALTH, PHYSICAL EDUCATION AND RECREATION **1 hour first semester**
Professional orientation to physical education including basic philosophy, objectives, professional opportunities and qualifications.

160 PERSONAL AND COMMUNITY HEALTH **2 hours second semester**
A survey course covering problems of personal and community health.

170 FIRST AID **2 hours each semester**
Study of first aid and safety procedures. Standard and advanced American Red Cross certificates are awarded to those who qualify.

300 HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION **3 hours first semester**
A historical survey of physical education from ancient to modern times with emphasis on the basic principles of modern physical education and their relationship to present day programs.

310 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION **3 hours second semester**
Administrative policies concerned with program, facilities, equipment and public relations in physical education.

320 KINESIOLOGY **3 hours first semester**
Analysis of joint and muscular action in relation to movement; application of the basic principles of mechanics to efficiency of performance in physical education activities. Prerequisite: Biology 120.

325 PHYSIOLOGY OF EXERCISE **2 hours first semester**
Physiological effects of muscular exercise on the body. Training and its relation to endurance, strength and athletic performance. Prerequisite: Biology 121. (Offered 1968-69 and alternate years.)

340 SPORTS OFFICIATING FOR WOMEN **2 hours**
Rules, techniques and practice in officiating various sports for girls and women. One lecture and two laboratories.

341 SPORTS OFFICIATING FOR MEN **2 hours**
Rules, techniques and practical experience in sports officiating.

345 METHODS OF TEACHING ELEMENTARY PHYSICAL EDUCATION **2 hours second semester**
Methods and materials for teaching group games, relays, stunts, and lead-up games for elementary schools including experience in presenting these activities.

350 METHODS OF TEACHING TEAM SPORTS FOR WOMEN **2 hours first semester**
A study of the methods and materials used in teaching basketball, hockey, soccer, softball, speedball, and volleyball in the secondary schools.

351 METHODS OF TEACHING INDIVIDUAL AND DUAL SPORTS FOR WOMEN **2 hours second semester**
A study of the methods and materials used in teaching individuals and dual sports.

360 METHODS IN HEALTH EDUCATION **2 hours second semester**
Methods and materials used in conducting an integrated program of health in the public schools. Prerequisite: Physical Education 160.

371 THEORY AND PRACTICE OF BASEBALL (MEN) **2 hours second semester**
Fundamentals of baseball, theory and practice. (Offered 1967-68 and alternate years.)

372 THEORY AND PRACTICE OF BASKETBALL (MEN) **2 hours first semester**
Fundamentals of basketball, theory and practice. (Offered 1967-68 and alternate years.)

373 THEORY AND PRACTICE OF FOOTBALL (MEN) **2 hours first semester**
Fundamentals of football, theory and practice. (Offered 1968-69 and alternate years.)

374 THEORY AND PRACTICE OF TRACK (MEN) **2 hours second semester**
Fundamentals of track and field, theory and practice. (Offered 1968-69 and alternate years.)

380 ATHLETIC TRAINING (MEN) **2 hours first semester**
A study of the types and causes of injuries incurred while participating in athletic sports; prevention and care.

400 TESTS AND MEASUREMENTS **3 hours second semester**
Application of measurement to physical education; selection, administration and interpretation of knowledge and performance tests. (Offered 1968-69 and alternate years.)

410 ORGANIZATION AND ADMINISTRATION OF INTERSCHOLASTIC SPORTS (MEN) **2 hours second semester**
Policies and procedures used in conducting interscholastic athletics with emphasis on secondary school programs. (Offered 1968-69 and alternate years.)

415 ORGANIZATION AND ADMINISTRATION OF INTRAMURAL SPORTS (MEN) **2 hours first semester**
Policies and procedures used in conducting intramural programs in schools and colleges. (Offered 1967-68 and alternate years.)

435 SPORTS IN AMERICAN CULTURE **2 hours**
A study of the inter-relationships of sports and physical recreation with other aspects of American culture.

486 READINGS IN PHYSICAL EDUCATION **1-3 hours**

490 SEMINAR **2 hours**
Introduction to research techniques in physical education: individual investigation by the student. Open to seniors or honor students.

RECREATION COURSES

315 COMMUNITY RECREATION **2 hours first semester**
A survey of the recreation programs of private, semi-private and public agencies within the community. (Offered 1968-69 and alternate years.)

355 RECREATION LEADERSHIP **3 hours second semester**
Methods and practice in selecting and conducting programs of recreation for all age groups in church, school and community settings. (Offered 1967-68 and alternate years.)

356 CAMP LEADERSHIP **3 hours second semester**
Practical and theoretical aspects of leadership in a camp situation with relation to counseling and directing of camp programs. (Offered 1968-69 and alternate years.)

425 RECREATION FIELD WORK **1-3 hours each semester**
Supervised fieldwork in camps, churches, playgrounds, recreation centers and other social agencies.

PHYSICS

Erickson, Olson, Wilson

Physics is concerned with the fundamental principles underlying all natural phenomena and is therefore basic to all the natural sciences. The physics curriculum acquaints students with the physical universe, introduces them to the concepts and theories which are now of importance in science and provides opportunity for personal experimental investigations.

The program in the Physics Department is planned to meet the needs not only of those students having professional aims in science, but also of those whose main interests are in other disciplines. The physics major program provides sound preparation for graduate work in physics and related fields, such as engineering, astronomy, geophysics, etc., or for the teaching of science on the secondary or elementary school level. For the general student, physics courses are designed to lead to a fuller awareness and understanding of our technological culture and to serve as an important part of a liberal education.

Introductory Physics 111, 112 or General Physics 215, 216 is the minimum preparation for those intending to do advanced work in any area of science.

MAJOR REQUIREMENTS FOR BACHELOR OF ARTS

Twenty-eight hours of physics including Physics 215 and 216 (or 111 and 112), 326, 327, 328, 357, and 358. Also required are Mathematics 116 and Cremistry 121 and 127.

MAJOR REQUIREMENTS FOR BACHELOR OF SCIENCE

Thirty-two hours of physics 215 and 216 (or 111 and 112), 326, 327, 328, 352, 357, 358, and 482. Also required are Mathematics 262 and Chemistry 132 and 136.

MINOR REQUIREMENTS

A minor in Physics consists of a minimum of sixteen hours including Physics 111 and 112 or 215 and 216, 326.

PHYSICS COURSES

100 PRINCIPLES OF PHYSICAL SCIENCE **4 hours each semester**
An integrated course in the Physical Sciences without mathematics beyond simple algebra. Recent achievements in science are presented with a minimum of quantitative detail. Basic principles and their application to space-age travel and astronomy, atomic and nuclear activity and other areas of contemporary science are considered. The course is designed particularly for the non-science student wishing to be literate in physical science and satisfies in part the graduation requirement in science. The course is not counted toward a science major or minor.

111 INTRODUCTORY PHYSICS **4 hours first semester**
An introduction to the principles and phenomena of mechanics, heat, and sound intended primarily for non-science majors. Three lectures and one laboratory per week. Prerequisites: Mathematics 113 and 115 or permission.

112 INTRODUCTORY PHYSICS **4 hours second semester**
A continuation of Physics 111 covering the principles and phenomena of light, electricity and modern physics. Three lectures and one laboratory per week. Prerequisite: Physics 111.

118 ELEMENTARY PHOTOGRAPHY **2 hours first semester**
A study of the elementary theory of photography and the techniques of exposing and processing films, prints, and enlargements. Each student must have a camera. Additional supplies will cost about five dollars. One lecture and one laboratory per week. Not counted toward a physics major. (Offered 1968-69 and alternate years.)

119 MUSICAL ACOUSTICS **4 hours second semester**
An introductory course covering the nature, production, and characteristics of musical sound and room acoustics. The course is designed particularly for students of applied and theoretical music. Three lectures and one laboratory per week. Not counted toward a physics major. (Offered 1967-68 and alternate years.)

215 GENERAL PHYSICS **4 hours first semester**
A foundation course covering the principles and phenomena of mechanics, heat, and sound for science students and engineers. Three lectures and one laboratory per week. Prerequisites: High school physics or equivalent; Mathematics 116 (may be taken concurrently.)

216 GENERAL PHYSICS **4 hours second semester**
A continuation of Physics 215 covering light, electricity, and modern physics. Three lectures and one laboratory per week. Prerequisite: Physics 215.

219 PHYSICS FOR THE HOME **2 hours first semester**
A study of the principles of operation of household equipment for cooking, cleaning, lighting, heating, entertainment, and of the other mechanical and electric appliances used in the home. (Offered 1967-68 and alternate years.)

317 ELECTRONICS **4 hours second semester**
A study of the physical principles applying to the operation of electron tubes and solid-state devices and applications to basic circuits. Three lectures and one laboratory per week. Prerequisites: Physics 112 or 216 and Mathematics 255. (Offered 1967-68 and alternate years.)

318 TECHNICAL PHOTOGRAPHY **2 hours second semester**
An advanced study of photographic processes and techniques with emphasis on the uses of photography. One lecture and one labora-

tory per week. Prerequisite: Physics 118 or permission. (Offered 1968-69 and alternate years.)

326 ATOMIC PHYSICS **2 hours first semester**
An introduction to the theory of atomic structure, spectroscopy, and elementary quantum mechanics. Prerequisites: Physics 112 or 216, Mathematics 116. (Offered 1967-68 and alternate years.)

327 NUCLEAR THEORY **2 hours second semester**
An introduction to the theory of nuclear structure, radioactivity, nuclear reactions, and radiation absorption and measurement. Ordinarily accompanied by Physics 328. Prerequisites: Physics 326, Mathematics 116. (Offered 1967-68 and alternate years.)

328 RADIOISOTOPE LABORATORY **2 hours second semester**
An experimental study of radioactivity and nuclear radiations. Methods of radiation detection and measurement, sample preparations, and data interpretation are emphasized. Two laboratory periods per week. Concurrent registration in Physics 327 is required. Prerequisite: Chemistry 136 or permission. (Offered 1967-68 and alternate years.)

352 THERMODYNAMICS **3 hours second-semester**
A study of thermodynamic principles and their applications including the first, second, and third laws of thermodynamics, heat, heat transfer, work, energy, enthalpy, Gibbs and Helmholtz functions, kinetic theory of matter, and elementary statistical mechanics. The course is designed for students of physics, chemistry, and engineering. Three lectures per week. Prerequisites: Physics 112 or 216, Chemistry 132, Mathematics 235, or permission. Concurrent registration in Chemistry 358 is suggested.

357 ELECTRICITY AND MAGNETISM **3 hours first semester**
A study of the theory of electrical and magnetic fields, steady and alternating currents, electromagnetic induction, Maxwell's equations, and electromagnetic waves. Prerequisites: Physics 112 or 216, Mathematics 262 or permission. Concurrent registration in Physics 358 is advised. Offered 1968-69 and alternate years.)

358 ELECTRICAL MEASUREMENTS **2 hours first semester**
An experimental study of the methods and instruments used to measure electrical and magnetic and related quantities. Two laboratories per week. Prerequisites: Physics 112 or 216. Concurrent registration in Physics 357 is advised. (Offered 1968-69 and alternate years.)

367 OPTICS **4 hours second semester**
A study of the nature of light and the principles of geometrical and physical optics with application to photometry and optical instruments. Three lectures and one laboratory per week. Prerequisites: Physics 112 or 216, Mathematics 255 or permission. (Offered 1968-69 and alternate years.)

417 HEAT MEASUREMENT **2 hours second semester**
An experimental study of thermometry, calorimetry, pyrometry, and psychometry. One lecture and one laboratory per week. Prerequisite: Physics 112 or 216, Mathematics 116.

482 THEORETICAL MECHANICS **3 hours second semester**
A theoretical study of the Newtonian mechanics of particles and rigid bodies with an introduction to the Lagrangian and Hamiltonian formulations. Three lectures per week. Prerequisites: Physics 112 or 216, Mathematics 262, or permission.

495 PHYSICAL SCIENCE SEMINAR **1 hour second semester**
Reports and discussion of current developments in physics and applications to astronomy, biology, chemistry and geology. Prerequisite: junior or senior standing in a natural science major and permission.

499 SPECIAL PROBLEMS **Credit to be arranged**
Supervised investigations by students qualified to work individually. Prerequisites: Junior or senior standing in the physics major and permission.

Social Sciences

BUSINESS AND ECONOMICS

BUSINESS EDUCATION

HISTORY

JOURNALISM

POLITICAL SCIENCE

PSYCHOLOGY

SOCIOLOGY

The Social Science Division provides an understanding and appreciation of human relationships and social problems. It makes available a broad, liberal background for later professional study and furnishes the basis for informed and responsible citizenship.

SOCIAL SCIENCE MAJOR

Thirty-six hours are required. Eighteen hours must be upper division.

Eighteen hours are required in each of two fields chosen from economics, history, political science, psychology and sociology. Three hours of statistics must be included in any combination except that of history and political science.

ECONOMICS AND BUSINESS MANAGEMENT, BUSINESS EDUCATION

Dixon, Evans, Weber

The objectives of this department are integrated with the primary objectives of the College. The central goal is to prepare students for life in its fullest sense. A broad liberal arts education is stressed which includes the basic tenets and teachings of our Christian faith. Built on this foundation are a series of theory and orientation courses to provide a basic understanding of our economic system and its primary institutions.

For the student preparing for graduate work in economics or business, selected courses are provided which will equip him for his graduate study.

The student wishing to enter the business world upon graduation will find that the curriculum in business is designed to provide a broad background and enough specialization to make the transition to the business world an easy one.

Specialized training is provided for students who wish to teach business subjects on the secondary level.

MAJOR REQUIREMENTS FOR ECONOMICS

Thirty-three hours are required for a major including 101, 102, 230, 231, 240, 301, 305, 307, 351, 411, and 465. It is recommended that majors in economics elect courses in mathematics, psychology, and sociololgy.

MINOR REQUIREMENTS FOR ECONOMICS

Sixteen hours are required, including 101 and 102, or 203 and 303.

MAJOR REQUIREMENTS FOR CONCENTRATION IN BUSINESS MANAGEMENT

Thirty-six hours are required for a major, including 101, 102, 230, 231, 236, 240, 248, 301, 351, 370, 371, and choice of 355 or 373.

MINOR REQUIREMENTS FOR CONCENTRATION IN BUSINESS MANAGEMENT

Sixteen hours are required including 101 and 102, or 203 and 371.

MAJOR REQUIREMENTS FOR CONCENTRATION IN BUSINESS EDUCATION

Thirty hours are required, including 101, 102, or 203, 204; 105-06 or 207, 208; 236, 240, 363, and EB 230, 231. If satisfactory preparation has been made in Business Education 101, 102, 105 and 106, these courses are waived and the student chooses second-year courses.

MINOR REQUIREMENTS FOR CONCENTRATION IN BUSINESS EDUCATION

Sixteen hours are required. Unless adequate preparation has been made in shorthand and typing, a minor includes Business Education 101, 102, or 103, 104; 105, 106, or 207, 208; 236. Business Education 363 and BE 230, 231 may be selected.

It is recommended that business education students elect courses in history, sociology, psychology, literature, and economics to acquaint them with the social and cultural development of the world.

ECONOMICS AND BUSINESS COURSES

101, 102 PRINCIPLES OF ECONOMICS **3 hours each semester**
This lays a foundation for future study in economics and business. The conventional treatment is followed, including: consideration of the factors of production, money, credit, exchange, value, price, and distribution. Considerable emphasis is placed on the application of economic theory to current national problems.

203 ECONOMICS **3 hours each semester**
This is a one-semester course for non-majors and non-minors. An orientation to our economic system is provided so that a person can understand the economic issues of our day and vote intelligently on economic questions. Basic economic principles and our key economic institutions are covered.

230, 231 BASIC ACCOUNTING **3 hours each semester**
A study of the accounting principles and procedures used in the construction and interpretation of the record of sole proprietorship, partnership, and corporation forms of business units.

235 WORLD RESOURCES, ECONOMIC GEOGRAPHY **3 hours**
A functional appraisal of the availability of agricultural and industrial resources. An attempt to develop an understanding of the cultural, technological, economic system. The emphasis is on concepts rather than mere factual knowledge, although relevant data will not be neglected.

236 BUSINESS COMMUNICATIONS **3 hours**
Business letters in their various forms. A course to give training in business methods as applied to office correspondence and report writing. Prerequisite: English 101, all outside assignments must be typed.

240 BUSINESS LAW **3 hours second semester**
A consideration of the laws affecting business transactions. Essentials of contracts, offer, acceptance, agency, sales, and negotiable instruments. Theoretical considerations are illustrated by the study of various cases — paying special attention to the bases of decisions.

248 ESSENTIALS OF MARKETING **3 hours**
A basic course dealing with the methods, policies, and institutions involved in the distribution of goods from the producer to the consumer; the marketing activities of manufacturers, wholesalers, and retailers: methods for improving efficiency and lowering distribution costs.

249 ESSENTIALS OF ADVERTISING **3 hours**
An overall view of the entire field of advertising. Provides a background for specialized advertising courses and essential information for business executives and others who use advertising media to communicate with the public. It deals with the structure and scope of the advertising industry; preparation of the message — visualization, copy, illustration and color, layout, production and printing, television and radio commercials; and a survey of advertising media, campaign planning, and research practices.

250 INTRODUCTION TO DATA PROCESSING **2 hours**
This is an orientation course designed to give a basic understanding of the role of the data processing in the business world. It includes the history and development of data processing, applications, and principles of data systems and procedures.

301 MONEY AND BANKING **3 hours first semester**
The topics treated in this course include: The nature, function and regulation of money and credit; the nature, function, and regulation of banks and other financial institutions; the Federal Reserve System; and the agricultural credit agencies in the United States. Prerequisite: Econ. 101 and 102, EB/BE 230 and 231.

303 COMPARATIVE ECONOMIC SYSTEMS **3 hours second semester**
This course is designed for both major and non-majors. A review of the various economic systems which have been employed by leading nations. Emphasis is placed on comparing the private enterprise system with alternative systems in the solution of basic economic problems. Prerequisite: Economics 101 and 102 or Economics 203.

305 STATISTICS **3 hours each semester**
Statistical methods and their application to economic and social problems, emphasis being placed on the use and interpretation of statistical results.

307 INTERMEDIATE ECONOMICS **3 hours**
The primary purpose of this course is to provide a summary of contemporary economic theory at a level intermediate between the beginning principles course and graduate courses in economic theory. Prerequisite: Economics 101 and 102.

325 HUMAN RELATIONS IN BUSINESS **3 hours**
A study of human processes and problems of business organization. Topics included are: motivation and behavior, leadership, organization, communication, participation, resistance to change, counseling, and practicing human relations. Especially designed to meet the needs of supervisory personnel.

332 COST ACCOUNTING **3 hours**
Source of cost data; analysis, classification, and distribution of expenses; and the linking up of data with the general accounting records. Prerequisite: EB/BE 230, 231.

334 INTERMEDIATE ACCOUNTING **3 hours**
Theory underlying the determination of income and the presentation of financial statements. Prerequisite: EB/BE 230 and 231 or instructor's approval.

351 ECONOMIC HISTORY OF THE UNITED STATES **3 hours**
This course covers the development of American industry from its beginning to the present. Various specific industries are considered in their historical perspective and in their effect on the social economy.

355 BUSINESS FINANCE **3 hours**

358 SALESMANSHIP **3 hours**
The essential principles of selling and their practical application to the sale of various products and services including space and time in advertising media. Practice in preparation and delivery of sales presentations.

A study of financing problems of modern business in the promotion, operation, reconstruction, and consolidation of enterprises. Prerequisites: EB 230, 231.

360 FORUM ON INSURANCE **3 hours**
Analysis of basic fundamentals of Life, Casualty, Fire and Allied Insurance. Course primarily designed for "buyers of insurance", junior insurance executives, and for interested insurance agent applicants. Insurance leaders of Spokane and of Pacific Northwest will conduct class forum discussions.

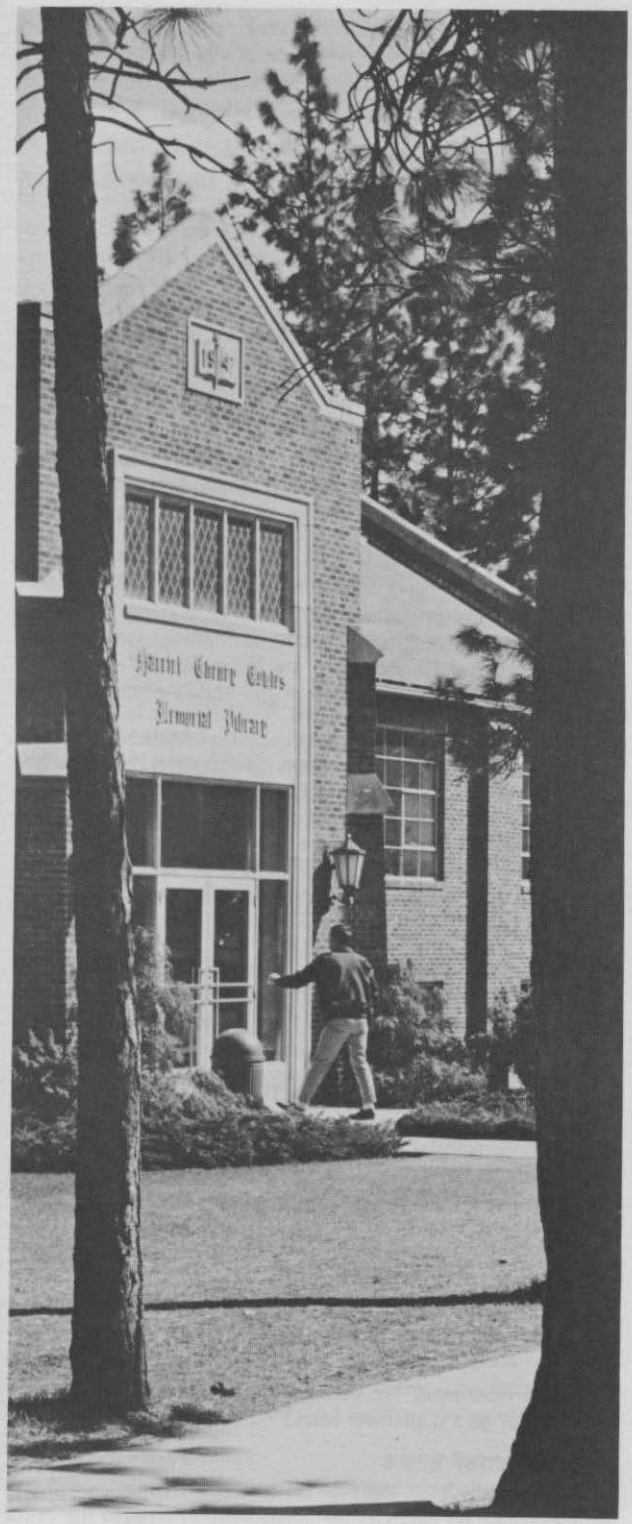
370 PRINCIPLES OF PRODUCTION **3 hours**
A study of the problems of manufacturing companies in producing tangible products, including the problems of organization, equipment and working conditions, developing and designing the product and controlling its quality, setting standards of work and incentives for employees and controlling the amount and cost of production. Wage plans, production planning, employee training and operations research are also included.

371 PRINCIPLES OF MANAGEMENT **3 hours first semester**
A general study of the principles and techniques of management. The fundamental functions of managers are reviewed, including planning, organizing, directing, and controlling; activities in which a supervisor engages in any type of organization and at any management level.

373 PERSONNEL MANAGEMENT **3 hours**
Concentration on the areas of management related to obtaining and maintaining an effective working force. Actual business cases are discussed in gaining a working knowledge of accepted principles and procedures.

388 LABOR AND INDUSTRIAL INTERNSHIP **3 hours second semester**
This course provides an opportunity for the student to visit selected business, labor, and government organizations in the Spokane area. Each organization visited provides orientation on its operations. The purpose of the course is to familiarize college students with the actual workings of some of the key institutions in our society.

400 CREDIT MANAGEMENT PROBLEMS **2 hours evening**
A course designed to assist credit personnel in acquiring useful



knowledges, or tools and skills with which he can make more accurate evaluations of credit risks. Discussions and interpretations of typical problems, with illustrations based on practical experience.

411 BUSINESS FLUCTUATIONS **3 hours second semester**
Attention to regional and national conditions. Some analysis of the causes for change, particularly of business cycles. Prerequisite: EB 301.

453 FORUM IN INVESTMENT TECHNIQUES **3 hours evening**
Investment leaders of Spokane and of the Pacific Northwest will conduct class forum discussions directed towards understanding and analyzing important types of securities, principles of diversification, securities exchanges, and bonds and stocks as investments.

465 HISTORY OF ECONOMIC DOCTRINES **3 hours first semester**
A study of the development of economic theory from the earliest times to the present. The approach is largely theoretical. Consideration will be given to the validity of the ideas of the various schools of economic thought in the light of the conditions prevailing at the time those theories were developed as well as to the effect of those theories upon our present-day economic thought. Prerequisite: Economics 101 and 102 or Economics 203.

473 MANAGEMENT CASES AND PROBLEMS
1-3 hours second semester
Cases and projects from the business world are assigned to students for individual study. Seminar sessions enable students to learn together how to solve typical problems which will be confronting them in the business world.

490 MARKETING RESEARCH **3 hours evening**
Practical training in the basic principles and techniques of research in marketing including questionnaire design, preliminary testing, interviewing, sampling, tabulation, and report writing.

491 RESEARCH **1-3 hours second semester**
Individual study and seminar discussions.

BUSINESS EDUCATION COURSES

101 ELEMENTARY TYPEWRITING **2 hours each semester**
Fundamentals of typewriting, including technique of stroking, rhythm, accuracy, arrangement of work, acquaintance with the various parts of the typewriter and how to use them. Laboratory course.

102 ELEMENTARY TYPEWRITING **2 hours each semester**
Continuation of Typewriting 101 with special emphasis on business letters, office records, etc.; and development of speed and accuracy. Laboratory course. Prerequisite: Knowledge of parts of machine, keyboard, and ability to type 30 words a minute.

105, 106 ELEMENTARY SHORTHAND **4 hours each semester**
Five class periods per week. Recommended Business Education 101 and 102 or its equivalent. Completion of the manual and development of transcription ability.

203, 204 ADVANCED TYPEWRITING **2 hours each semester**
Further development of speed and accuracy; tabulation, arrangement of letters and business forms. Laboratory course.

207, 208 ADVANCED SHORTHAND **3 hours each semester**
Three class periods per week. Continuation of Business Education 106 with special emphasis on the development of speed and transcription skill.

230, 231 ELEMENTARY ACCOUNTING **3 hours each semester**
For course description, see Department of Economics and Business.

236 BUSINESS COMMUNICATION **3 hours second semester**
For course description, see Department of Economics and Business.

240 SECRETARIAL WORK **3 hours second semester**
Filing, indexing, handling of mail, office appointments, telephone, modern office methods, duties of stenographic and allied departments, secretarial ethics, etc. Prerequisite: ability to type.

250 INTRODUCTION TO DATA PROCESSING **2 hours**
For course description, see Department of Economics and Business.

334, 335 INTERMEDIATE ACCOUNTING **3 hours**
For course description, see Department of Economics and Business.

363 BUSINESS MACHINES **2 hours first semester**
A laboratory course which gives training in the use of various office machines, such as adding machine, calculator, comptometer. Prerequisite: ability to type. Limited class enrollment.

365 METHODS IN TEACHING BUSINESS SUBJECTS
2 hours first semester
A course designed to prepare students interested in teaching secretarial subjects in the secondary school. Special methods used in the teaching skill subjects are given, the literature of the field is studied and available sources of material presented.

GEOGRAPHY

285 GLOBAL GEOGRAPHY **3 hours**
A general survey course on world geography: Identification of type regions, map orientation, and relationship of man to his environment will receive emphasis. Intended to provide students in the social sciences with the essential geographic understandings needed by majors and minors in the various social science fields.

HISTORY

Cunningham, Barber, Duvall, Kamm

This department is concerned with the task of presenting factual matter in a clear and comprehensive manner and teaching the student how to relate the facts of past history to the problems of the present and the future. It also shows the close connection between history and political science in the study of political institutions. A further objective is to prepare the student for continued research.

MAJOR REQUIREMENTS

Twenty-eight semester hours are required, including courses 131, 132, 211, 212, and either 498 or 499. It is strongly recommended that history majors take basic courses in political science, economics and the other social sciences. Courses in literature and philosophy also complement the study of history. It is hoped that history majors will take the following sequence of courses: 131, 132, 211, 212, 353 and 360. The remaining hours necessary for the major should be selected from the other course offerings.

MINOR REQUIREMENTS

Sixteen hours are required for a minor. It is suggested that history minors take 131, 132 and 201, 202 as foundation courses.

HISTORY COURSES

131 AMERICAN HISTORY TO 1865 **3 hours first semester**
A general course dealing with the development of the United States, including the European background, the colonial era, the struggle for independence, the development of national life and institutions, and the growth of sectionalism culminating in the Civil War.

132 AMERICAN HISTORY SINCE 1865 **3 hours second semester**
A continuation of History 131 emphasizing the development of the West, big business, overseas interests, and world leadership.

201, 202 HISTORY OF CIVILIZATION **3 hours each semester**
A survey of world history from pre-literary times to the present. Emphasis is placed upon the continuity of history and the relation which the past bears to contemporary civilization. This course is especially designed for those who are history minors and for students who wish a quick over view of the world's history.

211, 212 MODERN EUROPE **3 hours each semester**
This is basically a survey of European History since 1500. The first semester considers the history of Europe from 1500 until the Congress of Vienna. The second semester continues the study of the history of Europe to the present. Emphasis is placed on the development of the modern world from the heritage of Medieval Europe. It is expected that history majors will take this course rather than History 201 and 202.

325 HISTORY OF LATIN AMERICA **2 hours first semester**
A study of the earliest civilizations of Latin America; the discovery and colonization by Europeans; the Wars for Independence; and the development of independent nations during the nineteenth century.

326 LATIN AMERICA IN THE TWENTIETH CENTURY
2 hours second semester
A study of the political, social, economic, and cultural developments and of the international relationships of the Latin American nations during the twentieth century, with emphasis on the relationships with the United States.

344 POLITICAL HISTORY OF THE U. S.
For course description, see Department of Political Science.

351 ECONOMIC HISTORY OF THE UNITED STATES
3 hours second semester
For course description, see Department of Economics and Business. (Offered 1967-68 and alternate years.)

353 THE ANCIENT WORLD **3 hours first semester**
This course includes a study of the pre-literary beginnings of patterns of human organization; the development of civilized life in the

Ancient Near East; the life and thought of the Greeks; the development of the republic in Rome; and the rise and decline of the Roman Empire. Emphasis is laid on the contributions of the ancient world to the modern world.

355, 356 HISTORY OF ENGLAND **2 hours each semester**
Emphasis is placed on the development of social, economic, and political institutions from earliest Britain to the Commonwealth of Nations. Special work will be assigned those who are interested in constitutional developments.

357, 358 RECENT AMERICAN HISTORY **2 hours each semester**
A study of American History from 1900 to the present. Particular attention will be paid to the political, cultural, economic, and social development. (Offered 1967-68 and alternate years.)

360 MEDIEVAL EUROPE **3 hours second semester**
A study of Europe between the fall of Rome and the year 1500. This is often a neglected area of study. However, it furnishes valuable understandings for the study of modern times as well as the development and place of the universal church.

361, 362 AMERICAN DIPLOMATIC HISTORY **2 hours each semester**
The origin and development of agencies and policies of diplomacy in America. May also be taken for Political Science credit. (Offered 1967-68 and alternate years.)

363 DIPLOMATIC HISTORY OF EUROPE **2 hours first semester**
A study of European diplomacy from the French Revolution to 1900 with a brief introduction of the Renaissance origins of diplomacy. Emphasis will be placed on a careful study of the unique problems of the eras (i.e. Italian unification).

364 DIPLOMATIC HISTORY OF EUROPE **2 hours second semester**
A study of European diplomacy in the 20th century with special emphasis on the causes of the world wars and the cold war.

365 RUSSIAN HISTORY **3 hours second semester**
A study of Russia from the earliest times to the Revolution of 1917. Especial emphasis will be given to the development of the Russian national state and Russia under the Czars. Major attention will be given to the conditions in Russia that made the Revolution possible. (Offered 1967-68 and alternate years.)

371 THE RENAISSANCE **2 hours first semester**
A study of the fundamental economic, social, and political changes; the literary, artistic, musical, philosophic, and scientific developments; and the personalities that characterized western Europe from c. 1300 to 1500 A.D.

372 THE REFORMATION **2 hours second semester**
A study of the major economic, social, political, and cultural developments of the 16th and 17th centuries with special reference to their relationship to the religious life of that time. (Offered 1966-67 and alternate years.)

381, 382 JUNIOR READINGS **1 hour each semester**
A course designed to acquaint students who are majoring in History with the development of historical research and writing, with emphasis upon current interpretations of major historical problems. Required of all juniors who are majoring in History.

388 LABOR AND INDUSTRIAL INTERNSHIP
3 hours second semester
See Economics and Business for course description.

400 RECENT EUROPEAN HISTORY **3 hours first semester**
This course is designed to give the student an understanding of the forces, men, and events that have shaped Europe's destiny in this century. Especial attention will be given to recent happenings in Europe and the threat of Communism. (Offered 1967-68 and alternate years.)

475 COLONIAL AMERICA **2 hours first semester**
A study of the transplanting of European culture to American soil, the development of these colonies, and an analysis of the culture of the various colonies. No one who has taken 363 is eligible for this course.

476 THE AMERICAN REVOLUTION **2 hours second semester**
A study of the causes of the Revolution; the development of the philosophy of liberty, and how the cause was won on the field of battle. No one who has taken 363 is eligible for this course.

477 THE WEST IN AMERICAN HISTORY **3 hours second semester**
A study of the far west as a geographical section and its historical development from discovery and exploration to the present. The significance of the frontier is emphasized. (Offered 1967-68 and alternate years.)

480 CIVIL WAR **3 hours first semester**
A study of the basic forces making for the spirit of disunity that developed between the North and the South; an examination of the basic political philosophy of each section; as well as a study of the military action.

486 HISTORY AND GOVERNMENT OF THE PACIFIC NORTHWEST
2 hours
Historical, geographical, and political study of the Pacific Northwest; study of Washington state school laws. Fulfills requirement for certification. Acceptable credit for major or minor in history and social sciences.

491, 492 INDIVIDUAL CONFERENCE AND RESEARCH
1-3 hours each semester
Students are allowed to follow their own particular interests in history under guidance and will be held for detailed reports of their research. Review will be made of the various techniques and methods in research and the proper utilization of each. Credit given depends upon the amount of investigation done by the student.

Open only to seniors and graduates. The consent of the instructor is required for admission to this course.

498-499 SENIOR SEMINAR **1-3 hours each semester**
An introduction to the methods of historical research. Required of all history majors.

JOURNALISM

Gray

The Whitworth College journalism department, committed to the liberal arts approach to teaching, seeks to help the student attain the following objectives:

(1) a clear, readable style.
(2) competence in absorbing information rapidly and accurately, in analyzing and organizing it creatively, and in presenting it honestly and in perspective.
(3) maximum development of creative talents.
(4) an integrated view of the processes and problems of society and an expanding awareness of the total human environment.

Offerings of the journalism department and courses in other fields recommended for the major will provide a broad, liberal education. Many of the required journalism courses are content courses designed to complement other general courses and particularly to foster attainment of No. 4 above. In addition, the student majoring in journalism is required to complete a minimum of 18 semester hours in the social sciences, and 15 hours in the humanities.

The remaining journalism courses required for the major are methods courses which develop in the student the skill of clear and vigorous communication and the attitudes of accuracy, thoroughness, and responsibility in analyzing and reporting human affairs. The student's training in journalism also brings him into constant contact with the significant ideas and movements of the contemporary world and of the past. The entire journalism sequence — content and methods courses alike — emphasizes the growth of the student's creative talents.

Several of the journalism courses (Principle of Journalism, Editing, Communication and the Church, Publicity, Public Opinion, and Public Relations, Communications and Society, and Writing for Publication I and II) are vaulable for non-journalism majors. Communication techniques and attitudes learned in these courses will help non-journalism majors to enlarge their service to their own professional fields and to add to their liberal education.

MAJOR REQUIREMENTS

Twenty-six semester hours are required for a major, including the following: Journalism 115, 125, 242, 247, 354, 356, 360, 470, and 481.

Miscellaneous requirements for the journalism major will include a course in photography, a course in typing (or successful completion of a validating test in the subject which must be met not later than the junior year), and at least 18 hours in the social sciences (from at least two fields) and at least 15 hours in humanities. Study of a foreign language is strongly recommended.

MINOR REQUIREMENTS

Sixteen semester hours are required for a minor, including 115, 125, 242, 354, and 481.

RELIGIOUS JOURNALISM MINOR

The department offers a religious journalism minor as a service to preministerial students and Christian education majors. Sixteen hours are required for the minor with the following courses recommended: 242, 244, 250, 360, 481, and 482.

115 PRINCIPLES OF JOURNALISM — **3-4 hours first semester**

A course designed to emphasize the problems of communication and the development of the student's skill in communicating effectively through the written word. Stressed will be reader interest and identification, logical organization and presentation, readability, forceful expression, word usage, and careful research methods.

120 HONORS IN FRESHMAN WRITING — **3 hours first semester**

An exploratory writing course for students who show superior ability in written expression. Open by invitation only.

125 REPORTING — **3 hours second semester**

Lectures, practice and group discussion of the work of the reporter. Principles of news gathering and news writing.

242 EDITING — **3 hours first semester**

Instruction and practice in editing copy, writing headlines, make-up, evaluating news, etc.

244 PUBLICITY, PUBLIC OPINION AND PUBLIC RELATIONS — **2 hours**

Principles and practices of publicity and public relations in business, industry, government, and social agencies. Analysis of public opinion and propaganda. Use of surveys, publicity, advertising, and special events in public relations.

245 a, b, c APPLIED JOURNALISM — **1-2 hours each semester**

Staff members of THE WHITWORTHIAN (245a) and of THE NATSIHI (245b) will receive, if the work is satisfactory, not more than one credit each semester. Major editors, with the department's approval, may receive up to two credit hours, depending upon the demands of the position. Students doing comparable journalistic work on other student publications or with the college news bureau may receive credit through Journalism 245c.

247 HISTORY AND INFLUENCE OF THE PRESS — **3 hours second semester**

A study of the evolution and influence of newspapers and magazines, with special reference to problems of present-day journalism. Study of relation of newspapers and magazines to public opinion, government, and society. (Offered 1968-69 and alternate years.)

250 COMMUNICATIONS AND THE CHURCH — **2-3 hours second semester**

A study of the problems faced by the churches in communicating their precepts and programs. Writing techniques for church workers, both lay and professional. The course will cover religious publicity for newspapers and magazines, production of church publications, and the writing of religious articles, church letters, annual reports, and devotional materials. (Offered 1968-69 and alternate years.)

354 ADVANCED JOURNALISM — **3 hours second semester**

Advanced problems and projects with special emphasis given to

public affairs journalism and to the literature of journalism. (Offered 1967-68 and alternate years.)

356 COMMUNICATIONS AND SOCIETY **3 hours second semester**
The role of newspapers, magazines, and other mass media of communication in contemporary life. Analysis and evaluation of attitude and opinion studies involving information channels.

360 INTERPRETATION OF CONTEMPORARY AFFAIRS **2 hours first semester**
The theory and practice of editorial writing; analysis of editorial policy; interpretation of news. (Offered in 1968-69 and alternate years.)

368 TEACHING JOURNALISM AND SUPERVISING PUBLICATIONS **3 hours**
Lectures on teaching journalism courses and supervising publications on high school and college levels.

382 HUMAN RIGHTS AND THE LAW **2 hours second semester**
History and development of civil rights. Exploration of issues concerning due process, freedom of religion, speech, press, and assembly, rights of citizenship, freedom and national security, rights of association, and equality of opportunity. The course may be taken as either history, political science, or journalism. (Offered 1967-68 and alternate years.)

470 LAW OF COMMUNICATIONS **2 hours first semester**
Lectures and readings in libel and slander, right of privacy, copyright, and other legal phases pertaining to media of communication. (Offered 1966-67 and alternate years.)

475 PRACTICAL EXPERIENCE **2-4 hours**
Limited to qualified juniors or seniors who may elect to receive on-the-job experience with a newspaper, magazine, radio, or television station, or in advertising or public relations.

481 WRITING FOR PUBLICATION I **3 hours first semester**
Lectures and practice in preparing various forms of writing for publication. Each student in the class will submit his finished manuscripts as free lance efforts to national or regional publications. Students interested in religious journalism may be assigned special projects in that field. The course may be taken for English credit. (Offered 1967-68 and alternate years.)

482 WRITING FOR PUBLICATION II **2-3 hours second semester**
A continuation of Journalism 481. The course may be taken for English credit. (Offered 1967-68 and alternate years.)

490 RESEARCH AND WRITTEN PROJECTS **1-4 hours**
Opportunity for advanced students to do journalistic research or special projects. Work to be done in consultation with the head of the journalism department. Students must have senior standing.

POLITICAL SCIENCE

Haas

Courses in this department are designed:

To prepare students to evaluate governmental programs and policies in the light of basic American principles.

To clarify the political process so that a student may see where his own talents and interests may be useful therein.

To so involve the student in the consideration of governmental issues and policies that he will feel called to pursue these in some degree both as an avocational interest and as a Christian service.

To enable students to think rationally and empirically concerning problems facing the nation and the world; to avoid dogmatism in the political realm; to think both analytically and creatively; to understand both the causes of world tensions and proposals for coping with these tensions.

MAJOR AND MINOR REQUIREMENTS

A major in political science consists of a minimum of 25 semester hours in political science; a minor, at least 16 hours. Majors must include Political Science 101, 251, 433 or 445, and 493. Minors must have either 101 or 102, and 251. A foreign language is recommended but not required of all who major in political science.

POLITICAL SCIENCE COURSES

100 INTRODUCTION TO POLITICAL SCIENCE — 3 hours first semester
Introduction to the principles and problems of government; for non-majors in Political Science.

101 AMERICAN NATIONAL GOVERNMENT — 3 hours first semester
A study of the historical development and principles of the federal system of government in America; the territorial and functional distribution of government powers; civil rights; and political parties.

102 AMERICAN STATE AND LOCAL GOVERNMENT — 3 hours second semester
A study of state constitutions; the government and politics of states; and intergovernmental relations.

240 MODERN FOREIGN GOVERNMENTS — 3 hours second semester
A comparative study of constitutional principles, governmental institutions, and political problems of selected governments abroad. Relates economic, historical, and social factors.

250 CONTEMPORARY DOMESTIC AND FOREIGN AFFAIRS — 2 hours
Analysis of major news events with emphasis on major problems of contemporary politics and foreign relations.

251 INTERNATIONAL RELATIONS — 3 hours first semester
A study of the factors, rules, and forces which affect the relations of the national states; attempts to establish international organizations.

300 STUDY TOUR — 3-6 hours Summer
Instruction accompanied by Whitworth College sponsored travel abroad.

342 AMERICAN POLITICAL PARTIES — 3 hours first semester
A study of political parties as an instrument in the development of the American democratic system. Role of pressure groups; nomination and election procedures.

344 POLITICAL HISTORY OF THE UNITED STATES — 2 hours
Emphasis will be placed on the history of political parties and their place in the political history of the American Republic.

350 MODEL UNITED NATIONS — 1-2 hours second semester
Study and participation as a team representing a specific country at an inter-collegiate mock United Nations session.

358 INTRODUCTION TO LAW — 3 hours second semester
A study of the development of legal thought and institutions. Special attention will be paid to the relationship of law to history, economics, anthropology, and government; the nature of law; the role of legislatures and courts in the development of the American legal system.

361, 362 AMERICAN DIPLOMATIC HISTORY — 2 hours each semester
The origin and development of agencies and policies of diplomacy in America. Conduct of American foreign relations. May also be taken for history credit. (Offered 1967-68 and alternate years.)

365 AMERICAN CONSTITUTION — 3 hours
A study of the growth and development of the Constitution of the United States as reflected in the decisions of the Supreme Court. Special stress upon principles of the federal system; civil and political rights; executive power, powers of Congress; the judiciary; the regulation of commerce; and taxation.

371 PUBLIC ADMINISTRATION — 3 hours
Development of public administration and its relation to other branches of government. Principles of organization; processes and techniques of policy execution. (Offered on demand.)

375 GOVERNMENT AND THE AMERICAN ECONOMY — 2 hours second semester
A study of the role of government in American social and economic order. Special attention will be paid to the role of pressure groups; the concentration of economic power; agricultural policy; labor and industrial disputes; public utility regulation; public ownership; preventions of depressions; regulation of financial institutions; industrial mobilization; and other areas of concern to the United States citizens today.

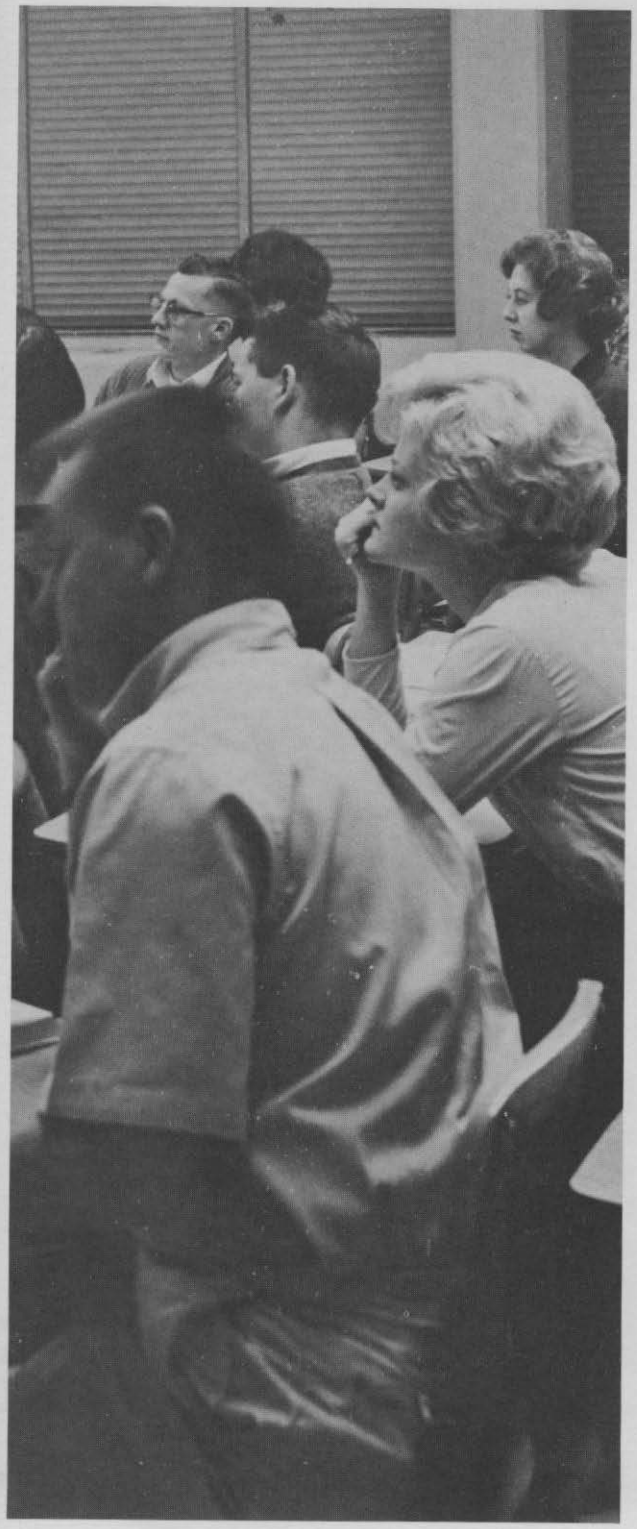
380 JUNIOR READINGS — 1 hour each semester

390 PUBLIC AFFAIRS INTERNSHIP — 3 hours
The student will serve several hours each week with a government agency, interest group, or political party, in order to study the agency's aims, organization, and activity. Duties will be assigned by the agency served, in cooperation with the professor in charge. Prerequisite: Permission of the department chairman.

425 PROBLEMS OF DEVELOPING NATIONS — 2 hours first semester
Definition and general character of underdeveloped areas; their main economic and administrative problems in selected cases; present national and international politics for their solution.

433 EUROPEAN POLITICAL THOUGHT — 3 hours second semester
The thought of the political philosophers and the development of basic concepts of the state from the time of Plato to present.

445 AMERICAN POLITICAL THOUGHT — 3 hours second semester
A study of the principal ideas which have influenced the development of political institutions and policies in the U. S. Includes such



thinkers as Roger Williams, Thomas Paine, John Marshall, Jefferson, Calhoun, Lincoln, and later figures.

491, 492 INDIVIDUAL CONFERENCE AND RESEARCH

1-3 hours each semester

Students are allowed to follow their own particular interests in this field under guidance and will be held for detailed reports of their research. Credit given depends upon the amount of investigation. Open only to seniors and those majoring in Political Science.

493 SENIOR SEMINAR IN POLITICAL SCIENCE

2-3 hours first semester

A group study of social science research methods and their application to the field of political science. Preparation of research papers. Required of seniors majoring in the department.

PSYCHOLOGY

MacDonald, Quall, Short, McQuarrie

Course offerings in the department of psychology are designed to provide students with a knowledge of the facts, problems, and research findings in the behavioral processes. The student is introduced to the basic methods of psychology, including quantitative, experimental, and clinical techniques. The concepts and issues of psychology are viewed from different theoretical positions and in historical perspective. A further aim is the development of rigorous habits of thinking and observation coupled with a scientific and open-minded attitude in approaching and dealing with problems. Students are encouraged to apply psychological principles in their own personal and social adjustment.

A major in psychology can be a first step toward any of a number of professional opportunities. Among them are college teaching, research, personnel work in industry and government, psychometrics, vocational and personal guidance in schools and colleges, clinical work with either children or adults in guidance clinics, juvenile and criminal courts, and mental hospitals. Nearly all of these positions require graduate work leading to the M.A. or Ph.D. degree. In addition, the major or a minor in psychology will equip the student with understandings and techniques beneficial in related vocations of teaching, the ministry, social work, business and nursing.

MAJOR REQUIREMENTS

The **pre-professional major** in psychology consists of at least 30 semester hours of credit, including the following required courses: 101, 210, 305, 362, 383, 454, 485, and either 324 or 359.

An **alternate major** is designed to meet the needs of students planning to enter related vocations such as social work, business, Christian education, and the ministry. The alternate major consists of at least 30 semester hours of credit, including the following required courses: 101, 210, 241 or 267, 305, 324 or 359, 327, 362 or 383, 468, and 485.

Students majoring in psychology are encouraged to elect courses in the biological sciences, including anatomy, physiology and genetics

for the required laboratory science. Courses in mathematics and at least one course in philosophy are highly recommended. It is recommended that General Psychology be taken in the freshman year, and that Developmental Psychology be completed prior to the second semester of the sophomore year. Greater liberty in the scheduling of required courses is possible if Statistics is taken during the second semester of the sophomore year.

MINOR REQUIREMENTS

A minor consists of at least 16 hours.

PSYCHOLOGY COURSES

101 GENERAL PSYCHOLOGY **3 hours each semester**
A survey of the field of psychology, including an introduction to the basic psychological concepts of maturation, motivation, perception, learning, emotion, emotional conflict, thinking, intelligence, and personality. (This course is a prerequisite to all courses in psychology.)

205 APPLIED HUMAN RELATIONS **2 hours second semester**
A second course in psychology for non-majors and non-minors, emphasizing applications of psychological principles to effective interpersonal relations; theoretical approaches to personality development; the role of perception, motivation, emotion and values in intrapersonal and interpersonal relations. Prerequisite: 101.

210 DEVELOPMENTAL PSYCHOLOGY **3 hours first semester**
A study of physical, mental, social and emotional growth and development from birth through adulthood. The course is designed to give an understanding of the individual in life situations. Prerequisite: 101.

241 SOCIAL PSYCHOLOGY **3 hours first semester**
Study of the interaction of the individual personality with his group and with other individuals. Emphasis is placed on the socialization of the personality, interpersonal relations, the behavior and interaction of groups, and other social-psychological phenomena. Prerequisite: 101.

267 GROUP DYNAMICS **2 hours second semester**
Systematic study of the characteristics of face-to face groups: cohesiveness, goal-setting, decision-making, styles of leadership, membership roles. Emphasis is placed on practical applications of group dynamics theory; observations are taken of groups in action. Prerequisites: 101. (Limited enrollment.)

305 STATISTICS **3 hours each semester**
Statistical methods and their application to social and psychological problems, with emphasis on the use and interpretation of statistical data. Prerequisite: 101.

315 PHYSIOLOGICAL PSYCHOLOGY **3 hours first semester**
Physiological mechanisms underlying behavior and mental processes; sensory-motor mechanisms; integrative action of the nervous system; neuro-physiological mechanisms involved in emotional and motivational behavior and learning. Prerequisite: 101, physiology or the permission of the instructor.

324 PSYCHOLOGY OF ADJUSTMENT **3 hours first semester**
A study of human adjustment with emphasis on motivation, frustration and conflict, varieties of adjustive behavior, and positive mental hygiene. Emphasis is placed on the application of adjustment principles to the personal life of the student. Prerequisites: 101 and 210.

327 PSYCHOLOGY OF PERSONALITY **3 hours second semester**
An examination of the major theories of personality development and structure. Study of the formation and function of the individual personality. Prerequisites: 101 and 210.

359 ABNORMAL PSYCHOLOGY **3 hours second semester**
A study of the nature of behavior pathology with emphasis on developmental factors, behavior syndromes, and problems of diagnosis and treatment. Prerequisites: 101, 210, 324 or 327, or permission of the instructor.

362 EXPERIMENTAL PSYCHOLOGY AND LABORATORY **3 hours second semester**
A laboratory course in the fundamentals of psychological research and experimentation. Training in the scientific methods and tools of modern experimental psychology, with emphasis on student design and execution of experiments, interpretation of data, and the writing of reports. Two consecutive periods twice weekly. Prerequisites, 101, 305.

377 PSYCHOLOGY OF RELIGIOUS EXPERIENCE **2 hours second semester**
Systematic study of religious experience from the psychological viewpoint. Experiences such as worship, conversion and prayer are discussed in the light of psychological concepts and insights. Prerequisite: 101.

383 PSYCHOLOGICAL THEORY AND HISTORY **3 hours first semester**
A study of the nature and problems of theory construction in psychology. Contemporary issues in psychology are viewed in historical perspective and from different theoretical positions. Prerequisite: Six hours in psychology exclusive of statistics. A course in philosophy is highly recommended.

425 PSYCHOLOGY OF LEARNING **3 hours second semester**
A comprehensive study of the experimental research in and major theories of learning. Prerequisite: 101, 305 or the permission of the instructor.

454 MEASUREMENT IN PSYCHOLOGY **3 hours first semester**
Theory of psychological measurement. A survey of individual and group tests employed in the measurement of general abilities, aptitudes, interests and personality characteristics, together with problems of administration, scoring and the interpretation of test results. Prerequisites: 101, 305.

468 THEORY AND PRINCIPLES OF COUNSELING **3 hours second semester**
An introductory course in the purpose and theory of the counseling process, functions of the counselor, introduction to interview technique, individual appraisal and records in the counseling process. Prerequisites: 101, 210 and either 327, 324, or 359.

480, 481 READINGS IN PSYCHOLOGY **2-3 hours first semester**
Directed readings on topics chosen in consultation with the depart-

mental staff. Open to advanced students only. Prerequisite: By permission of the department head.

485 SENIOR SEMINAR **2 hours second semester**

Seminar discussions on major concepts in psychology. Discussions based on independent readings, led by seminar students, and guided by members of the faculty. Designed to integrate previous learnings in psychology.

490, 491 INDEPENDENT RESEARCH **2-3 hours**

The formulation and execution of an empirical research problem, the statistical analysis and interpretation of results and preparation of a research report. Open only to senior psychology majors and graduate students. Work to be done in consultation with the Head of the Department of Psychology.

SOCIOLOGY

Houser, Little

Sociology develops an understanding and appreciation of human relationships and social problems. It also provides a broad liberal background for later professional study in law, medicine, the ministry, and social work.

Students in sociology may prepare themselves for any one of the following fields of work: College teaching of sociology, elementary school teaching in certain states, social service work (See Professional Studies Section, page 24), playground director, director of youth groups, probation or parole officer, criminologist, work with city and regional planning agencies, rural social administration, public opinion polling and market research, social science analyst, counseling in schools or camps, recreation supervisor, social research, and public administration. It is understood that to qualify for many of these positions the student will have to do graduate work in sociology or social work, or in other specific fields.

MAJOR REQUIREMENTS

Twenty-five hours are required for a major in sociology, including courses 111, 112, 241, 305, and 378. It is recommended that sociology majors take principles of economics, United States history, American government, and considerable psychology.

Students preparing to teach in the public schools of the State of Washington under the General Certificate, and choosing social studies as their broad field, may include six hours of approved sociology courses among the sixteen hours required for the second teaching area.

Sociology majors preparing for elementary school teaching must minor in history and meet the educational requirements for the General Certificate.

MINOR REQUIREMENTS

Sixteen hours are required for a minor, including courses 111, 112, and 241.

SOCIOLOGY COURSES

111 INTRODUCTION TO SOCIOLOGY **3 hours each semester**
A study of the major concepts of sociology. This course provides a background for further study in the field of sociology.

112 SOCIAL PROBLEMS **3 hours each semester**
A study of our chief social problems; their causes, their results, and some suggested solutions.

233 COURTSHIP AND MARRIAGE **3 hours first semester**
A study of the factors in preparation for marriage and family life. Factors in marriage adjustment and parent-child interaction.

237 CRIMINOLOGY **3 hours second semester**
A study of crime; nature and extent, causes, control; rehabilitation of the criminal.

241 SOCIAL PSYCHOLOGY **3 hours first semester**
A study of the relationship between social organizations and the personality attributes of members of society. The social nature of ethnic, racial, class, and sex differences. The development of a socialized personality.

242 RACE AND ETHNIC RELATIONS **3 hours second semester**
A study of racial and ethnic relations with special reference to problems in the United States.

300 STUDY TOUR **3-6 hours Summer**
Instruction accompanied by Whitworth College sponsored travel abroad.

305 STATISTICS **3 hours each semester**
Statistical methods and their application to social problems, with emphasis on the use and interpretation of statistical data.

331 CULTURAL ANTHROPOLOGY **3 hours first semester**
A study of comparative cultures, both primitive and modern, with emphasis on functionalism.

353 THE FAMILY **3 hours first semester**
A study of the family as an institution; family problems, approaches to their solution.

363 THE COMMUNITY IN AMERICAN SOCIETY
3 hours second semester
A study of the structure and functions, the organizational aspects, and the social and economic aspects of the community.

364 PUBLIC OPINION **3 hours first semester**
A study of the various factors in the formation of public opinion; the media of mass communication; censorship and propaganda; the techniques in democracies and in dictatorships.

365 CONTEMPORARY SOCIAL MOVEMENTS
3 hours second semester
A study of the ideologies of major social movements and their relationship to social structure. (Offered 1967-68 and alternate years.)

371 INTRODUCTION TO SOCIAL WELFARE **3 hours first semester**
A study of the basic principles and practices in modern case work and community organization. Study of the present social work agencies, both public and private, and the roles and functions of social workers and administrators.

372 FIELD OBSERVATION **2 hours second semester**
Supervised field work with social agencies. Prerequisite, course 371.

373 FIELD WORK **2 to 8 hours**
This course is an expansion of course 372, available only occasionally as local agencies offer opportunity. Each student has a special project with a particular social agency, requiring large blocks of time. Prerequisite, course 371.

378 SOCIAL THEORY **3 hours second semester**
An introduction to social theorists whose works are guideposts in modern sociology. Emphasis is on the contributions of Comte, Spencer, Marx, Durkheim, Simmel, Max Weber, Cooley, Merton, and Parsons. Open only to sociology majors except by permission of the instructor. (Offered 1966-67 and alternate years.)

491, 492 INDIVIDUAL CONFERENCE AND RESEARCH
2-4 hours each semester
Students are allowed to follow their own particular interests in this field, and will be held for detailed reports on their research. Credit given depends upon the amount of work done, and the results of the investigation.

Inter-disciplinary Areas

AMERICAN STUDIES

EDUCATION

GRADUATE STUDY

Teacher Education, Graduate Study, and American Studies are inter-disciplinary in nature and are so administered. Professional courses in Education leading to certification and to advanced degrees are listed below. Graduate courses in Religion are listed with the other offerings in that department. American Studies options are given on page 26 and the courses are listed with the appropriate departments.

EDUCATION

Briggs, Johnson, McCleery, Quall, Tiffany, Wurster

The ideal of a good program of teacher preparation is to develop each prospective teacher's personality, knowledge, and skill to the point of maximum teaching efficiency. Whitworth believes this ideal is most likely to be attained through providing students with a thorough understanding of their teaching subjects, through developing poise and confidence in the use of effective teaching methods, and by encouraging students to dedicate themselves to the challenging demands of membership in the teaching profession.

The Education Department, in cooperation with all other departments, introduces the student to the high level of cultural and aesthetic living essential for teachers of American youth. Teaching candidates are expected to understand the subject matter in broad fields commonly taught in elementary and secondary schools. Attention is given to the development of effective skill in educational procedures and to the professional integrity needed for strict adherence to these procedures in classroom situations. Evaluation is also made of the individual's personal characteristics and attitudes as they pertain to a successful teaching career.

The State Certification Requirements for Washington may be found under Teaching, page 24.

EDUCATION COURSES

210 HUMAN GROWTH AND DEVELOPMENT **3 hours each semester**
Description and analysis of human growth and development characteristics from conception through senility, including the learning process, and with emphasis on the years from infancy through adolescence.

222 CHILDREN'S LITERATURE **2 hours second semester**
Study of the scope of elementary school literature and materials and methods relative to meeting growth needs of children through literary adaptation.

303 CURRICULAR MATERIALS AND METHODS **3 hours each semester**
Included are studies of the nature of learning, class management, unit development, evaluative techniques, and the scope of instructional materials and methods typically used in modern elementary, junior high, and senior high schools. A minimum grade point average of 2.50 at time of registration is required.

305 STATISTICS **3 hours each semester**
Statistical methods and their application to social problems, with emphasis on the use and interpretation of statistical data.

306 THEORIES OF LEARNING **3 hours each semester**
A study of the established facts about human learning. Specific attention is given to such topics as learning, problem solving, cognition, motivation, transfer, and reinforcement.

331 ELEMENTARY CLASSROOM MUSIC **2 hours**
For course description, see Music Department.

332 WORKSHOP: AUDIO VISUAL AIDS **2-3 hours first semester**
The theory and practice of using effectively modern audio-visual aids and materials for teaching. Adult education will be considered.

333 MUSIC EDUCATION FOR THE ELEMENTARY SCHOOL **2 hours second semester**
For course description, see Music Department.

334 SECONDARY SCHOOL MUSIC EDUCATION **2 hours second semester**
For course description, see Music Department.

353 ART EDUCATION METHODS **2 hours**
For course description, see Art Department.

357 NEW CONCEPTS IN ARITHMETIC **3 hours**
A presentation of arithmetic concepts that reflect the latest thinking in the teaching of arithmetic to elementary and junior high school pupils. Arithmetic projects will be considered with emphasis on School Mathematics Study Group material.

401 PRINCIPLES OF GUIDANCE **2 hours**
A comprehensive view of guidance in an educational context. Principles, service, trends, organization, function of various specialists, and the role of the teacher will be studied. Training is provided in counseling, data gathering, and test interpretation.

412 TESTS AND MEASUREMENTS **2 hours second semester**
Analysis of individual and group psychological tests and their application to progress of the pupil. Time will be given to problems in making of classroom tests in classroom subjects.

415 WORKSHOP: SCIENCE IN THE INTERMEDIATE AND UPPER GRADES **3 hours**
Adapting the needs of the elementary and junior high school students to the field of general science; developing science materials through workshop activities. This course is especially designed to meet the needs of teachers in grades 4, 5, and 6.

420 ELEMENTARY READING **2 hours each semester**
A course designed to teach the processes of directing children of the elementary grades in the effective use of modern reading materials.

421 ARITHMETIC IN THE ELEMENTARY SCHOOL **2 hours first semester**
A course designed to teach the processes of directing children of the elementary grades in the effective use of the arithmetic and number system.

423 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL
2 hours first semester
Study of curricular materials and methods in social studies for the elementary level.

424 GENERAL SCIENCE IN THE ELEMENTARY AND JUNIOR HIGH SCHOOL **2 hours second semester**
Adapting the needs of elementary and junior high school students to the field of general science. A presentation of modern methods and materials of science teaching.

425 TEACHING IN THE JUNIOR HIGH SCHOOL **2 hours fall semester**
An up-to-date presentation of junior high school education — its historical development, its basic philosophy and its practices. The course aims to provide a comprehensive treatment of the subject adapted to the needs of students intending to teach at the junior high school level.

426 LANGUAGE ARTS IN THE ELEMENTARY SCHOOL
2 hours second semester
Emphasis upon the teaching of the language arts, speech, oral and written expression, creative and dramatic work, handwriting and spelling, to meet the needs of the elementary school child.

433 WORKSHOP: SOCIAL STUDIES MATERIALS **3 hours**
A workshop in the development of curricular materials and methods at the elementary school level. Classroom materials will be planned and constructed.

437 INTERPRETATIONS OF CURRENT EDUCATIONAL RESEARCH
3 hours
A review and summarization of research now current in the field of education with particular attention to its applicability to the classroom. This course is designed to inform professional educators as to the latest research in their fields.

440 WORKSHOP: LANGUAGE ARTS MATERIALS IN THE PRIMARY GRADES **3 hours**
Designed for teachers in grades 1, 2, and 3. Instruction will be devoted to organizing the materials and methods for developing language arts readiness and competence in world analysis, reading, spelling, and other skills in the language arts field.

453 WORKSHOP: READING MATERIALS IN THE PRIMARY GRADES **3 hours**
Students will plan and construct reading programs and materials. Reading aids will be devised. Attention will be given to methods of word attack and of phrasing. Problems of motivation and of follow-up will be evaluated, and the essential materials planned. A practical course for teachers in grades 1, 2, and 3.

455 WORKSHOP: SCIENCE IN THE PRIMARY GRADES **3 hours**
A development of science materials for children in grades 1, 2, and 3; how to plan, organize, and demonstrate for science understanding. Teachers will be guided.

481, 482 RESEARCH SEMINAR **1-3 hours as arranged**
Students are provided with the opportunity to do special research according to their interests with the guidance of the Chairman of the Department.

483 SPEECH FOR THE CLASSROOM TEACHER **3 hours**
For course description, see Speech Department.

487 SPECIAL METHODS OF TEACHING ENGLISH IN SECONDARY SCHOOLS **2 hours**
For course description, see English Department.

488 SPECIAL METHODS OF TEACHING THE SOCIAL SCIENCES **2 hours**
A study of the development and present status of social studies programs in junior and senior high schools; contribution of social studies in developing civic and social competence; analysis of typical teaching materials, common textbooks, classroom methods of teaching and of evaluation.

490E DIRECTED TEACHING AND OBSERVATION, ELEMENTARY **8 hours each semester**
Eight weeks of daily observation and teaching of classes in the public schools of the area. Supervision by the regular teachers to whom the cadet is assigned. A one-hour conference period weekly is required of the class, and individual conferences are required at appointed times. Open to seniors and graduate students with approved teaching fields. Required for certification. Special fee for the proper remuneration of a master teacher in the public school system and school administrators. See section on financial information. A minimum grade point average of 2.50 at time of registration is required. Prerequisites: Education 210, 302, 303 and Laboratory Experiences. Students on any kind of probation are not eligible.

490J DIRECTED TEACHING AND OBSERVATION, JUNIOR HIGH
See course description 490E above.

490S DIRECTED TEACHING AND OBSERVATION, SECONDARY **8 hours**
See course description 490E above.

GRADUATE COURSES IN EDUCATION

Any graduate course not described below will carry a number above 500.

501 ADVANCED TECHNIQUES OF COUNSELING AND GUIDANCE
3 hours
A graduate seminar course considering the psychometrics and indirect methods of counseling and readings as basic consideration for directing educational and vocational programs of school children. The student may elect either the elementary or secondary level upon which to do basic research.

502 ADVANCED PRINCIPLES OF EDUCATION **3 hours**
A course designed to acquaint the student with the broad principles governing American life and their relationship to the schools; teaching for democracy; relationship of education to American society; responsibilities of the teacher and administrator; human problems and the teacher. Adaptation of the schools to these basic problems. For teachers and administrators.

523 CLASSROOM SUPERVISION **3 hours**
The improvement of instruction through supervision in the first twelve grades.

524 THE SCHOOL AND COMMUNITY RELATIONS **3 hours**
A course designed to help those who are interested in the total educational program of the community. Emphasis is placed on the development of a school-community program based on local needs.

525 ORGANIZATION AND ADMINISTRATION OF PUBLIC SCHOOLS **3 hours**
Topics to be included will be: qualifications of the successful administrator; his relationship with other administrators, the board, faculty and students; curriculum evaluation; schedule making; pupil personnel activities, pupil accounting; public relations. Students should indicate elementary or secondary level of interest.

531 ADVANCED EDUCATIONAL PSYCHOLOGY **3 hours**
A systematic survey of the field of educational psychology for information and principles of practical value to teachers and administrators in the total public school program. The development of personality through counseling and guidance will be discussed.

533 SPECIAL PROBLEMS IN THE DEVELOPMENT OF CURRICULUM MATERIALS **3 hours**
This course is conducted on the workshop basis. Students engage in the actual development of curriculum materials in the field of their choice.

536 STUDENT ACTIVITY PROGRAMS **3 hours**
An analysis of the whole area of activity programs with regard to purposes, types of programs, specific activities, and the function and evaluation of such programs.

538 CURRENT EDUCATIONAL THOUGHT **3 hours**
An examination of major issues confronting contemporary education in the United States and of critical thought bearing on those issues.

540 SEMINAR IN PROGRAMMING TECHNIQUES **3 hours**
Attention will be given to the following topics: brief survey of programmed learning, educational and psychological implications, procedure for defining course objectives, sequencing procedures, evaluation of response modes, criteria for device selection. Selected materials and teaching machines will be demonstrated.

541 PHILOSOPHY OF EDUCATION **3 hours**
A philosophical treatment of the functions of schools in our time. The course attempts to bring into focus the objectives and goals toward which our educational system is moving. It has significance, not only for the teacher, but for all those who are concerned with our educational destinies.

542 COMPARATIVE EDUCATION **3 hours**
A comparative study of the common educational programs available to youth in the principal countries of Western Europe, the United States, and the Soviet Union. Attention is centered on the forces that determine the character of education in each nation.

550 SUPERVISED CHILD GUIDANCE EXPERIENCE **6 hours each semester**

560 PUBLIC SCHOOL FINANCE **3 hours**
The methods used in the past and present for financing the schools. Coordination and practices of the state, city, and local boards in providing funds; the annual budget and its control; the principal of prudence in the administration of funds; management of funds; statements and reports; salaries; cost analyses; auditing; and other means of control are studied. The methods, advantages, and administration of school bonds, and the philosophy of state and Federal support are given attention. For all administrators.

561 TESTS AND MEASUREMENTS **2 hours**
This study gives itself to analysis of individual and group psychological tests and their application to progress in the pupil. Time will be given to problems in making of classroom tests in classroom subjects.

575 TRENDS IN CURRICULUM BUILDING **3 hours summer**
A study of the problems in curriculum development and of promising practices in curriculum work. Given on demand.

581 STUDIES IN ELEMENTARY PROBLEMS **2 hours**
A broad, general study of problems in elementary education. Teachers and students choose problems which are typical in a classroom and work them out in a seminar.

566 READINGS IN EDUCATION **3 hours**
A graduate reading course in educational materials and basic studies in major areas of educational curricula.

587 APPLIED ADMINISTRATIVE RESEARCH **6 hours**
Students will select a topic in the field of education that has special significance relating to their professional responsibilities. Research will include reading from authority and application of the principles in a real situation. Prerequisite: 18 semester hours of graduate study.

590, 591 RESEARCH SEMINAR **2-4 hours each semester**
A supervised study into major problems in education. The student follows research methods similar to his individualized investigation. Subjects pertinent to either the elementary, junior high, or senior high school may be elected.

594, 595 THESIS **3 hours each semester**
Methodology of Research and Thesis writing.

RESERVE OFFICERS TRAINING CORPS

Whitworth College in cooperation with Gonzaga University offers male students opportunities to participate in the Reserve Officers' Training Corps program. The ROTC program is specifically designed to give college men training and experience in the art of organizing, motivating and leading others. It includes instruction to develop self-discipline, physical stamina and bearing — qualifications that are an important part of leadership and that contribute to success in any kind of career. This program represents an endeavor to cooperate with the Government in its preparation for national defense. The program is divided into two distinct segments — the basic course and the advanced course. The basic course is designed for freshmen and sophomore students and the advanced course is reserved for juniors and seniors. Completion of both basic and advanced courses in addition

to graduation from Whitworth College may lead to a commission as a Second Lieutenant in the Army of the United States.

BASIC COURSE

The basic course is available to all physical fit male students who are citizens of the United States. The basic course consists of class instruction in the fundamental military skills and one hour of drill per week for four academic semesters. The instruction, which is progressive during the two years, is designed to acquaint the student with military problems and practices; to prepare him partially for performance of duties in the defense of his country; and to afford the student opportunities to develop his leadership potential. Credit for the course may be applied toward meeting the requirements for graduation.

ADVANCED COURSE

The advanced course is available to men who have completed the basic course, or who have received equivalent credit elsewhere, or who have completed four months of active duty for training with the United States Army, Navy, Air Force, Coast Guard, or Marines. Application for the advanced course must be made during the sophomore year. Attendance at a basic summer camp between the sophomore and junior years may be selected in lieu of the basic course normally taken during the freshman and sophomore years. Entrance into this phase of the program is elective on the part of the student and selective on the part of the Reserve Officers' Training Corps.

Whitworth students have an option regarding qualification for admission to the advanced course. A candidate may attend two summer camps — one being between the sophomore and junior years and the second between the junior and senior years. These summer courses, in addition to the two years of advanced work, together with the completion of the ROTC program and requirements for a degree from Whitworth College, may qualify them for a commission in the United States Army.

All students who are commissioned satisfy their military obligation by a period of active service plus subsequent membership in a reserve organization. Under normal conditions, the student will be required to spend two years of his period of active service, plus four years in an inactive reserve status. The needs of the Service at the time are determining factors in this regard.

As a rule, students enter upon active duty within the year following graduation though deferment for graduate work can be granted. A student contemplating graduate work should discuss this point with the Reserve Officers' Training Corps. It is to be noted that formal requests must be received at Sixth United States Army 180 days prior to graduation.

TEXTBOOKS, UNIFORMS, AND EQUIPMENT

Textbooks, uniforms, and equipment are furnished without charge by the Army. All Government property issued to the student must be returned at the end of the school year, or upon departure, if the student leaves school prior to the end of the school year. Grades will be withheld if the student fails to do this. Any loss or damage to government property will be paid for by the student.

INELIGIBILITY

Individuals in the following situation are ineligible to participate in the ROTC program:

1. Physical condition. Any disease or infirmity which would render the individual incapable of performing military duty as determined by a physician.

2. Age. Students who have reached the age of 24 years at the time of freshman enrollment.

3. Citizenship. Non-citizens of the United States are ineligible without the approval of their nation's ambassador to the United States. These provisions do not apply in the case of an individual who intends to become a citizen or has initiated procedures to become a citizen of the United States.

4. Part-time academic schedule. Students pursuing a program of instruction of less than 12 semester hours.

MILITARY SCIENCE COURSES

100, 101 BASIC GENERAL MILITARY SCIENCE 1 hour each semester
Organization of the Army and ROTC; individual weapons and marksmanship; the U. S. Army and national security; leadership laboratory.

200, 201 BASIC GENERAL MILITARY SCIENCE 1 hour per semester
Introduction to operations and tactics; map and aerial photograph reading; military history; leadership laboratory.

300, 301 ADVANCED GENERAL MILITARY SCIENCE 2 hours each semester
Leadership; methods of instruction; branches of the Army; small unit tactics and communications; leadership laboratory.

400, 401 ADVANCED GENERAL MILITARY SCIENCE 2 hours per semester
Logistics; operations, Army administration, military law; role of the United States in world affairs; leadership laboratory.

THE BOARD OF TRUSTEES

The Trustees constitute the governing board of the College. The Board is authorized by its charter to hold all properties and to exercise all corporate controls concerning affairs of the college. It has the authority to determine policies and delegate the execution of such policies to the administration and faculty.

Officers of the Board

Albert Arend, Chairman ..... Spokane
Haydn Morgan, Vice Chairman ..... Spokane
W. Harvey Frazier, Secretary ..... Spokane
Ernest E. Baldwin, Treasurer ..... Spokane

Emeritus Members

Charles F. Koehler, D.D. ..... Spokane
Otto R. Rabel ..... Seattle

Class of 1966

Milton Durham, M.D. ..... Spokane
John Gordon, D.D. ..... Yakima
Mrs. Robert Hardy ..... Yakima
Carroll M. Hull ..... Yakima
Haydn Morgan ..... Spokane
Robert B. Munger, D.D. ..... Seattle
Sheldon O. Price, D.D. ..... Phoenix
William Richter, M.D. ..... Spokane
Werner Rosenquist ..... Spokane
Thomas L. Thompson ..... Connell
Ingwer Thomsen ..... Marlin
Ralph G. Turnbull, D.D. ..... Seattle

Class of 1967

Albert Arend, LL.D. ..... Spokane
Ernest E. Baldwin ..... Spokane
Mrs. Grant Dixon ..... Spokane
W. Harvey Frazier, M.D. ..... Spokane
Albert Howell ..... Seattle
Roy Howes, D.D. ..... Fort Collins, Colorado
Keith Murray, Ph.D. ..... Bellingham
Kenneth G. Myers ..... Seattle
Fred W. Neale ..... Seattle
John W. Oosterhoff ..... Marysville
Sam A. Postell ..... Spokane
George W. Rodkey, M.D. ..... Spokane

Class of 1968

W. H. Cowles, LL.D. ..... Spokane
F. L. Graybill ..... Spokane
Herbert Hamblen ..... Spokane
Reuben N. Hauan ..... Mercer Island
Philip Hitchcock, LL.D. ..... New York
David L. Jones ..... Seattle
Raymond Moody ..... Spokane
C. E. Polhemus, LL.D. ..... Spokane
Arthur E. Symons ..... Seattle
Mrs. Ellsworth Van Patten ..... Seattle
C. Davis Weyerhaeuser, LL.D. ..... Tacoma

OFFICES OF ADMINISTRATION

The Office of the President

President ..... Dr. Mark L. Koehler

The Office of the Dean of the Faculty

Dean of the Faculty ..... Dr. C. J. Simpson

The Office of Student Personnel Services

Dean of Students ..... Dr. Robert L. McCleery
Associate Dean of Students ..... Mrs. Lillian D. Whitehouse
Coordinator of Student Activities ..... Mr. Robert Huber

The Office of the Registrar

Registrar ..... Miss Estella Baldwin
Assistant Registrar ..... Miss Jean Pierce

The Business Office

Business Manager ..... Mr. J. Gordon Hornall
Bursar ..... Mr. Dayne Nix
Data Processing Supervisor ..... Mr. Alan S. Edwards

Library

Head Librarian ..... Miss Flaval Pearson
Assistant Librarian ..... Mrs. Ina Henefer
Catalog Librarian ..... Mr. Lionel Woodworth

The Development Office

Director of Development ..... Mr. Rodney L. Houts
Director of Public Relations ..... Mr. Virgil Griepp

The Office of Admissions

Director of Admissions ..... Mr. Kenneth F. Proctor
Associate Director ..... Mr. David Morley

The Office of Educational Services and Placements

Director of Teacher Placements ..... Mrs. Arlie V. Clyburn

The Book Store

Manager ..... Mrs. Leonard B. Martin

Health Service

Director, Physician ..... Kenneth C. Snyder, M.D.
Psychiatric Consultant ..... C. Gordon Edgren, M.D.
Supervisor, Head Nurse ..... Mrs. Robert Winniford, R.N.

THE FACULTY OF INSTRUCTION

The faculty consists of certain officers of instruction. Teachers are classified as follows: Professors, Associate Professors, Assistant Professors and Instructors. The faculty is charged with the responsibilities for the academic program, the extra-class activities sponsored by the college, and the welfare of its students.

MARK LOWELL KOEHLER, Th.M., D.D., LL.D.
President
B.A., Whitworth College; M.A., San Francisco Theological Seminary; B.D., San Francisco Theological Seminary; D.D., Dubuque University; LL.D., Hastings College.
Whitworth College, 1962—

JOSE MANUEL ALONSO, Ph.D.
Associate Professor of Spanish
LL.D., Ph.D., University of Havana.
Whitworth College, 1963—

ESTELLA E. BALDWIN, M.A.
Registrar
B.A., M.A., Whitworth College; Bible Institute of Los Angeles; Graduate Study, New York Biblical Siminary, and University of Boston.
Whitworth College, 1931—

BETTY C. BARBER, M.A.
Instructor in History
B.A., Wilson College; M.A., New York University.
Whitworth College, 1965—

GLADWIN E. BARTEL, M.A.
Instructor in Mathematics
B.A., Bethel College; M.A., Kansas State Teachers College.
Whitworth College, 1965—

THOMAS W. BIBB, Ph.D.
Professor of Economics and Business Administration (Emeritus)
B.A., William Jewell College; M.A., Ph.D., University of Washington.
Whitworth College, 1946-1961

ERIKA BIRNBAUMS, B.A.
Assistant Professor of Modern Languages
Institute of English, Riga, Latvia; Teachers' Institute, Riga, Latvia; B.A., Whitworth College.
Whitworth College, 1957—

ROBERT D. BOCKSCH, Ph.D.
Associate Professor of Chemistry
B.S., Wayne University; Ph.D., University of Wisconsin.
Whitworth College, 1958—

MARGARET KRAUSE BRIGGS, M.A.
Instructor in Education
B.A., M.A., Whitworth College.
Whitworth College, 1965—

JOHN ARVID CARLSON, M.S.
Professor of Mathematics
B.S., M.S., University of Washington; Graduate study, University of Washington.
Whitworth College, 1935—

ANNA JANE CARREL, M.M., A.A.G.O.
Professor of Music (Emeritus)
Mus.B., Oberlin Conservatory of Music; Mus.M., Cincinnati Conservatory of Music; student of Ernest Hutcheson and Sigismund Stajowski in New York City; B.A., Whitworth College; Graduate study towards Ph.D., Yale University; and Graduate Study at Eastman School of Music.
Whitworth College, 1937—1964.

HOMER F. CUNNINGHAM, Ph.D.
Professor of History
B.A., Greenville College; M.A., University of Michigan; Ph.D., New York University.
Whitworth College, 1955—

A. ROSS CUTTER, Ed.D.
Associate Professor of Physical Education
A.B., University of California; M.A., College of the Pacific; Ed.D., University of California.
Whitworth College, 1958—

DAVID PEDER DAHL, M.A., A.A.G.O.
Assistant Professor of Music
B.A. in Music, Pacific Lutheran University; M.A., University of Washington.
Whitworth College, 1964—

DAVID E. DILWORTH, Th.D.
Professor of Religion
B.A., University of California at Los Angeles; B.D., Princeton Theological Seminary; Th.D., San Francisco Theological Seminary.
Whitworth College, 1955—

HARRY DIXON, Ph.D.
Associate Professor of Economics and Business
B.S., Ph.D., University of Illinois.
Whitworth College, 1960—

R. FENTON DUVALL, Ph.D.
Professor of History
B.S. in Ed., Temple University; M.A., University of Pennsylvania; Litt. D., King's College, Delaware; Ph.D., University of Pennsylvania.
Whitworth College, 1949-1959, 1961—

IVAN DEAN EBNER, Ph.D.
Assistant Professor of English
A.B., Wheaton College; Ph.D., Stanford University.
Whitworth College, 1964—

RODNEY ENOS, Ed.D.
Assistant Professor of Physical Education; Football Coach
A.B., Baker University; M.S., Kansas State University; Ed.D., Washington State University.
Whitworth College, 1965—

GLEN P. ERICKSON, M.A.
Associate Professor of Physics
B.S., Illinois Institute of Technology; M.A., Columbia University; Ph.D. Cand., Columbia University.
Whitworth College, 1965—

ERNESTINE EVANS, M.A.
Associate Professor of Business Education
B.A., M.A., Washington State College; Graduate study, Columbia University, New York Biblical Seminary, New York University Graduate School of Business Administration.
Whitworth College, 1941—

JACQUELINE FICK, M.S.
Assistant Professor of Biology
A. B., Holy Names College; M.S., Marquette University.
Whitworth College, 1958—

DOROTHY GOSS, M.Ed.
Instructor in Home Economics
B.A., M.Ed., Whitworth College.
Whitworth College, 1962—

ALFRED ORREN GRAY, M.A.
Professor of Journalism
B.A., M.A., University of Wisconsin; Graduate study, University of Wisconsin.
Whitworth College, 1946—

NICOLIN P. GRAY, M.S.
Assistant Professor of Biology
B.S., M.S., University of Washington; Graduate study, University of Washington.
Whitworth College, 1944-1949, 1956—

ALBERT CLARENCE GUNDERSON, M.A.
Assistant Professor of Speech and Drama
B.A., Western Washington State College; M.A., University of Washington; Graduate study towards Ph.D., University of Washington.
Whitworth College, 1964—

GARLAND A. HAAS, Ph.D.
Professor of Political Science
B.S., M.A., Indiana University; Ph.D., University of Washington.
Whitworth College, 1961—

PAULINE D. HAAS, M.F.A.
Instructor in Art
Diploma from the Art Academy of Cincinnati, B.A., M.F.A., Indiana University.
Whitworth College, 1962—

INA HENEFER, M.L.S.
Assistant Librarian
B.A., Whitworth College; M.L.S., University of Washington.
Whitworth College, 1950-1960, 1964—

FRANK EDWARD HOUSER, A.M.
Associate Professor of Sociology
A.B., Houghton College; A.M., Columbia University.
Whitworth College, 1959—

DELORIS J. M. JACOBS, M.S.
Assistant Professor of Physical Education
B.A., Eastern Washington State College; M.S., University of Illinois.
Whitworth College, 1959-1961, 1965—

MARION R. JENKINS, Litt. Hum. D.
Professor of Religion (Emeritus)
B.A., Whitworth College; M.A., New York University; Graduate of San Jose Teacher's College, California; Graduate study at University of California and New York Biblical Seminary.
Whitworth College, 1931-1965

JASPER H. JOHNSON, Ed.D.
Associate Professor of Education
B.A., M.Ed., Ed.D., University of Washington.
Whitworth College, 1953—

MILTON E. JOHNSON, M.A.
Professor of Music
B.S., University of Minnesota; M.A., University of Iowa. Special study with Julius Herford, Roger Wagner, John Finley Williamson, and Frank Miller.
Whitworth College, 1957—

HUGH W. JOHNSTON, Ph.D.
Professor of Chemistry
B.S., Montana State College; M.S., University of Illinois; Ph.D., Indiana University.
Whitworth College, 1957—

RICHARD B. KAMM, B.A.
Instructor in History, Basketball Coach
B.A., Wheaton College; Ph.D. Cand., Washington State University.
Whitworth College, 1960—

JOHN G. KOEHLER, M.F.A.
Professor of Art
B.A., M.A., University of Washington; M.F.A., University of Oregon.
Whitworth College, 1945—

J. RUSSELL LARSON, M.Ed.
Associate Professor of Art
B.A., B.S., University of Washington; B.Ed., M.Ed., Whitworth College; Graduate study, Instituto Allende, Gto, Mexico.
Whitworth College, 1947—

MARK W. LEE, M.A.
Associate Professor of Speech and Drama
B.A., M.A., Wheaton College; Ph.D. Cand., University of Washington.
Whitworth College, 1957—

JOHN CLIFTON LITTLE, Ed.D.
Assistant Professor of Sociology
A.B., Houghton College; B.D., Gordon Divinity School; M.Ed., Alfred University; Ed.D., University of New York at Buffalo.
Whitworth College, 1964—

PATRICIA A. MacDONALD, Ph.D.
Professor of Psychology
B.A., University of Washington; M.A., Ph.D., University of Rochester.
Whitworth College, 1955—

DIANA C. MARKS, M.Ed.
Assistant Professor of Physical Education
B.A., Wheaton College; M.Ed., Whitworth College.
Whitworth College, 1956—

LEONARD B. MARTIN, M.Mus.
Associate Professor of Music
Westminster Choir College; B.Mus., M.Mus., University of Southern California; Pupil of Arthur Alexander.
Whitworth College, 1949—

ROBERT L. McCLEERY, Ed.D.
Dean of Students
B.A., M.A., University of Denver; Ed.D., University of Nebraska.
Whitworth College, 1963—

ROBERT M. McCROSKEY, M.S.
Assistant Professor of Engineering
B.S., Southern Methodist University; M.S., University of Missouri; B.A., Eastern Washington College.
Whitworth College, 1962—

DUNCAN M. McQUARRIE, M.A.
Visiting Lecturer in Psychology
B.A., M.A., Central Washington State College.
Whitworth College, 1966—

PAUL J. MERKEL, M.Ed.
Assistant Professor of Physical Education, Director of Athletics, Baseball Coach
B.A., B.Ed., M.Ed., Whitworth College.
Whitworth College, 1954—

BENJAMIN CONRAD NEUSTEL, M.S., D.Sc.
Professor of Chemistry (Emeritus)
B.A., Willamette University; M.S., Washington State College; Graduate work, University of Washington; Washington State College; D.Sc., Whitworth College.
Whitworth College, 1928-1956

LEONARD A. OAKLAND
Instructor in English
B.A., M.A., University of California.
Whitworth College, 1966—

EDWIN A. OLSON, Ph.D.
Associate Professor of Geology
B.S., M.S., University of Pittsburgh; Ph.D., Columbia University.
Whitworth College, 1960—

MARGARET SAUNDERS OTT, M.S.
Instructor in Piano
B.A., Mills College; M.S., Juilliard School of Music; Professional Assistant and Student of Olga Samaroff-Stokowski; Special Study with Moriz Rosenthal and Sascha Garodinitzki.
Whitworth College, 1963—

FLAVAL PEARSON, B.A.
Head Librarian
B.A., B.A. Librarianship, University of Washington.
Whitworth College, 1958—

J. ARNOLD PELLUER, M.S.
Assistant Professor of Physical Education; Track Coach
B.A., M.S., Washington State University.
Whitworth College, 1965—

ALVIN QUALL, Ed.D.
Professor of Education and Psychology; Director of Graduate Studies
B.A., Seattle Pacific College; M.A., University of Washington; Ed.D., Washington University.
Whitworth College, 1953—

HOWARD A. REDMOND, Ph.D.
Professor of Religion and Philosophy
B.A., University of California at Los Angeles; B.D., Princeton Theological Seminary; M.A., Ph.D., University of Southern California.
Whitworth College, 1957—

ISLA W. RHODES, M.A.
Assistant Professor of Home Economics
B.S., Colorado State University; M.A., Whitworth College.
Whitworth College, 1961—

KENNETH E. RICHARDSON, Ph.D.
Professor of English
B.A., Westmont College; M.A., Ph.D., Claremont Graduate School.
Whitworth College, 1959—

SHIRLEY RICHNER, M.A.
Assistant Professor of Education
B.A., Texas Western College; M.A., Whitworth College.
Whitworth College, 1966—

GEORGE A. ROSS
Instructor in Music
B.A., University of Manitoba; M.A., University of Washington.
Whitworth College, 1965—

GUSTAV HERMAN SCHLAUCH, Ph.D.
Professor of Sociology (Emeritus)
B.A., Spokane University; M.A., Ph.D., University of Washington.
Whitworth College, 1942-1964

RONALD R. SHORT, Ph.D.
Assistant Professor of Psychology
B.A., Whitworth College; M.A., Ph.D., Claremont Graduate School.
Whitworth College, 1965—

CLARENCE J. SIMPSON, Ph.D.
Dean of the Faculty
A.B., Ashbury College; M.A., University of Cincinnati; Ph.D., Stanford University.
Whitworth College, 1953—

EVELYN A. SMITH, M.R.E.
Associate Professor of Religion and Christian Education
B.A., University of California; M.R.E., The Biblical Seminary in New York; Graduate study, University of California, Whitworth College.
Whitworth College, 1944-45, 1948—

HOWARD M. STIEN, Ph.D.
Associate Professor of Biology
B.A., Northwestern College; M.Ed., Macalester College; Ph.D., University of Wyoming.
Whitworth College, 1965—

PIERRETTE C. SWEAT, B.A.
Instructor in French
B.A., French First Baccalaureat in Nice, France.
Whitworth College, 1963—

THOMAS T. TAVENER, M.A.
Assistant Professor of Music
B.A., M.A., University of Washington; Graduate study towards Ph.D., University of Colorado.
Whitworth College, 1959—

ARTHUR L. TEGGER, M.A.
Instructor in English
B.A., Westmont College; M.A., Pacific University.
Whitworth College, 1966—

ESTELLA N. TIFFANY, M.A.
Associate Professor of Education
B.A. in Education, Eastern Washington College of Education; M.A., University of Washington.
Whitworth College, 1949—

ALAN P. TUBBS, M.A.
Lecturer in Music, Director of Wind Ensemble
B.S., Albany College of Pharmacy; B.A., M.A., University of Washington; Graduate Study with Armando Chitalla.
Whitworth College, 1964—

JAMES R. WADSWORTH, Ph.D.
Professor of Modern Languages
A.B., M.A., Ph.D., Cornell University, Graduate study, University of Paris, University of Strasbourg.
Whitworth College, 1960—

LOYD BENSON WALTZ, M.A.
Professor of Speech and Dramatics
B.A., Willamette University; M.A., University of Southern California.
Whitworth College, 1944—

JEANNE WARDIAN, Ed.D.
Associate Professor of Music
B.A., Gonzaga University; M.A., Columbia Teachers College; Ed.D., Washington State University.
Whitworth College, 1963—

GEORGE WEBER, M.B.A.
Assistant Professor of Business and Economics
B.A., Whitworth College; M.B.A., Harvard University.
Whitworth College, 1965—

LILLIAN D. WHITEHOUSE, M.A.
Associate Dean of Students
B.A., Linfield College; M.A., Whitworth College.
Whitworth College, 1965—

MAE WHITTEN, M.A.
Associate Professor of English
B.A., Stanford University; M.A., Whitworth College; Graduate study at Stanford University, University of California and University of Oregon.
Whitworth College, 1945—

WILLIAM G. WILSON, M.S.
Associate Professor of Physics and Engineering
B.S., M.S., University of Washington; Graduate study, University of California, University of Washington, Eastern Washington College of Education; work towards Ph.D., Washington State College.
Whitworth College, 1946—

FRANCES L. WISE, R.N., M.N.
Director of Deaconess Hospital School of Nursing
Diploma from Samaritan Hospital School of Nursing, Nampa, Idaho; A.B., Northwest Nazarene College; B.S., University of Minnesota; M.N., University of Washington.
Whitworth College, 1963—

ROBERT WINNIFORD, Ph.D.
Assistant Professor of Chemistry
B.A., Oregon State University; M.A., California Institute of Technology; Ph.D., University of Tennessee.
Whitworth College, 1963—

ROLAND B. WURSTER, M.A.
Associate Professor of English
B.S., Oregon State College; M.Ed., University of Oregon; M.A., George Peabody College for Teachers.
Whitworth College, 1957—

LAWRENCE E. YATES, Th.D.
Professor of Philosophy and Greek
B.A., McGill University; M.A., University of Toronto; B.D., Presbyterian College, Montreal, Canada. Graduate study, University of Saskatchewan; Th.D., Princeton Theological College.
Whitworth College, 1948—

The main buildings of the campus consist of: Cowles Memorial Auditorium, Dixon Hall, McEachran Hall, Hardwick Student Union Building, Harriet Cheney Cowles Memorial Library, Eric Johnston Science Center, Grieve Hall, Graves Gymnasium, Home Economics Building, Fine Arts Building, Dining Hall, Edinger Memorial Chapel, Arend Hall, Westminster Hall, Ballard Hall, McMillan Hall, Warren Hall, Stewart Hall, Field House, Music Building, and Central Heating Plant.

McEachran Hall was built in 1953. It houses the administrative offices.

Dixon Hall was completed in 1956. It was named after Grant Dixon, a former Board member and benefactor of the College. This building contains 18 classrooms which are used by the various divisions of the College and also includes individual offices for faculty members. The building is of brick and completely fireproof.

The Cowles Memorial Auditorium, which was completed in 1956, was a gift from the Cowles family. It is a brick structure of modern design. It contains an auditorium which seats 1250 persons and has a large stage for the presentation of music and dramatic productions. This building houses a little theater area under the stage, speech classrooms, a public relations office, speech offices, development offices, and a faculty lounge.

The Hardwick Memorial Student Union Building was completed in 1957. This building contains a snack bar and rooms situated adjacent to it that can accommodate gatherings up to 75 in number. It also provides a large room for social events, game room, lounge with TV and record player, book store, post office, five guest rooms, and offices for student publications and the Associated Students.

The Harriet Cheney Cowles Memorial Library, completed in 1948, was a gift from the Cowles family. It is a beautiful brick structure which accommodates the study needs of the entire student body and has a capacity of 100,000 books.

The Eric Johnston Science Center was completed in 1966 and contains classrooms and laboratories for biology, chemistry, geology and physics. A greenhouse, science library, astronomy observation deck and a 100-seat amphitheatre-style lecture hall are special features of this instruction-research facility.

Housing: Eight dormitory buildings provide housing for the students. Ballard, Calvin, McMillan, and Warren Halls accommodate 433 women. Arend, Lincoln, Stewart, and Westminster have a total capacity of 375 men. On the east side of the campus married students and faculty members occupy twenty-two apartments known as College Homes. Other living quarters for faculty members and families are also provided.

Graves Gymnasium is the center of the athletic program of the campus. Adjacent to this building is a natural amphitheater which with its view of nearby hills provides a turfed athletic field of unique beauty. This field also contains a quarter mile track. Stannard Field is used for baseball and other field sports. The athletic facilities also include five cement and asphalt tennis courts.

Whitworth Field House: The Whitworth Field House was completed in 1962. It is a building 242 feet long and 181 feet wide, and will provide accommodation for many indoor sports including football, track, baseball, and basketball. The field-house facilities will also be used by the Physical Education Department for a variety of sports and recreational activities.

The Music Building consists of two levels. The first floor has two large classrooms and a number of practice rooms. The second floor contains the recital room, a central music office, and studios for the individual members of the department.

The Home Economics Building contains a large foods laboratory and storage room. A modern, all electric kitchen is located on the first floor. In addition, the Home Management Cottage makes it possible for students to gain practical experience.

The Fine Arts Building is a brick structure with two floors, making space for a lecture room, studios, store rooms, and faculty offices.

The Leavitt Dining Hall is a solid brick structure. It will accommodate 500 students at one time through the use of its upper and lower dining rooms.

Grieve Hall houses the Health Center. It contains the nursing office, the dispensary, and both single rooms and wards for the care of students during illness. A home economics classroom is also in this building.

The Edinger Memorial Chapel was erected by the Philadelphians. It accommodates forty students and is used for small religious group meetings and for private devotions.

FIRST AND SECOND SEMESTER, 1964-1965

	FALL			SPRING		
	Men	Women	Total	Men	Women	Total
Freshmen	240	350	590	212	292	505
Sophomores	188	208	396	194	175	369
Juniors	155	170	325	170	197	367
Seniors	132	152	284	154	180	334
Graduates	132	176	308	154	181	335
Special	20	24	44	28	35	63
	867	1080	1947	912	1061	1973

FIRST AND SECOND SEMESTER, 1965-1966

	FALL			SPRING		
	Men	Women	Total	Men	Women	Total
Freshmen	206	306	512	213	305	518
Sophomores	165	204	369	134	179	313
Juniors	179	161	340	166	134	300
Seniors	150	182	332	143	186	329
Graduates	122	156	278	130	187	317
Special	11	21	32	37	41	78
	833	1030	1863	823	1032	1855

GEOGRAPHICAL DISTRIBUTION OF ENROLLMENT

Fall Semester 1964-1965

	Day	Night	Total
Alabama	1	—	1
Alaska	6	—	6
Arizona	4	—	4
California	216	7	223
Colorado	33	—	33
Delaware	1	—	1
Hawaii	6	—	6
Idaho	40	33	73
Illinois	5	—	5
Maine	4	—	4
Minnesota	5	—	5
Montana	29	1	30
Nevada	1	—	1
New Mexico	1	—	1
New York	2	—	2
North Carolina	2	—	2
North Dakota	1	—	1
Oregon	44	2	46
Pennsylvania	3	—	3
South Dakota	2	—	2
Texas	1	—	1
Utah	3	—	3
Washington	792	666	1458
West Virginia	1	—	1
Wyoming	5	—	5
Totals	1208	709	1917
Foreign Students			
American with Foreign Residence	4	—	4
Canada	10	—	10
Hong Kong	2	—	2
Japan	2	—	2
Kenya	1	—	1
Korea	3	—	3
Nigeria	1	1	2
Peru	1	—	1
S. Rhodesia	1	—	1
Taiwan	1	—	1
Thailand	3	—	3
Totals	29	1	30
Grand Totals	1237	710	1947

Fall Semester 1965-1966

	Day	Night	Total
Alabama	4	—	4
Alaska	4	—	4
Arizona	6	—	6
California	253	—	253
Colorado	28	—	28
Delaware	1	—	1
Florida	2	—	2
Hawaii	12	—	12
Idaho	43	25	68
Illinois	3	—	3
Indiana	1	—	1
Massachusetts	1	—	1
Michigan	1	—	1
Minnesota	5	—	5
Missouri	1	—	1
Montana	43	—	43
Nebraska	1	—	1
New Mexico	1	—	1
New York	1	—	1
North Carolina	2	—	2
North Dakota	1	—	1
Ohio	1	—	1
Oregon	40	—	40
Pennsylvania	1	—	1
South Dakota	3	—	3
Utah	3	—	3
Washington	733	615	1348
Wisconsin	1	—	1
Wyoming	4	—	4
Totals	1200	640	1840
Foreign Students			
American with Foreign Residence	5	—	5
Canada	9	—	9
Colombia	1	—	1
Japan	1	—	1
Kenya	1	—	1
Korea	3	—	3
Nigeria	1	—	1
Thailand	2	—	2
Totals	23	—	23
Grand Totals	1223	640	1863

CALENDAR FOR 1967-1968

SUMMER SCHOOL 1967

Registration	June 5-12
Class Instruction Begins	June 12
Holiday	July 4
Final Examinations first session	July 19-21
Second Session Begins	July 24
Final Examinations	August 23-25

FIRST SEMESTER, FALL 1967

Registration and Orientation	September 11-15
Class Instruction Begins 8:00 a.m.	September 18
Men's and Women's Conference	September 22-24
Latest date to add a course without reduction of credit	September 29
Latest date for discontinuing a course without grade	October 7
Mid-Semester Examinations*	November 6-10
Thanksgiving Recess Begins at 12:00 noon (day classes)	November 22
Thanksgiving Recess Ends 8:00 a.m.	November 27
Christmas Vacation Begins after evening classes	December 15
Christmas Vacation Ends, Wednesday 8:00 a.m.	January 3
Pre-Registration for returning students	January 15-26
Final Examinations*	January 19-26
Mid-Year Commencement, Sunday	January 28

SECOND SEMESTER, SPRING 1968

Registration of new students	January 31
Class Instruction begins 8:00 a.m.	February 1
Latest date to add a course without reduction of credit	February 15
Latest date for discontinuing a course without a grade	February 22
Mid-Semester Examinations*	March 25-29
Spring Vacation Begins after evening classes	April 5
Easter	April 14
Spring Vacation Ends for Day School, 8:00 a.m.	April 16
Final Examinations*	May 24-31
Baccalaureate and Commencement	June 2

*Grades are due at 9 a.m. Wednesday following the end of the mid-semester and final examination period.

1967

JANUARY

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1968

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DECEMBER

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